SAMSUNG

Contact SAMSUNG WORLDWIDE
If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Country	Customer Care Centre ☎	Web Site
EIRE	0818 717 100	www.samsung.com/ie
U.K	0845 SAMSUNG (7267864)	www.samsung.com

BN68-01410C-00

SERIES 5

LCD TV
user manual

imagine the possibilities

Thank you for purchasing this Samsung product.
To receive more complete service, please register your product at

www.samsung.com/global/register

Model _____ Serial No. _____

SAMSUNG

Precautions When Displaying a Still Image

A still image may cause permanent damage to the TV screen.

WARNINGS:

Image retention, commonly known as screen burn-in, can occur on most types of television if the same image is displayed continuously. The most common causes of image retention are logos that remain stationary on the TV screen. These logos are common on many programmes received via a Setop Box. To reduce this risk, avoid displaying still images for long durations and lower the brightness or contrast settings to decrease the intensity of the picture. Extended viewing of movies and programs in aspect ratios that are different from the aspect ratio of the TV may cause image retention. Always endeavour to avoid black borders top or bottom by using the zoom function. This will help eliminate the black borders and fit the picture to the entire area of the screen. Using a video game console may cause image retention and is not recommended. When using a PC input, avoid displaying still images for long durations and reduce the brightness or contrast settings to decrease the intensity of the picture.

IMPORTANT:
Image retention issues are not covered by your Samsung® warranty.

Contact SAMSUNG WORLDWIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre. (See back cover for more informations.)

Precautions When Displaying a Still Image

A still image may cause permanent damage to the TV screen.

- Do not display a still image on the LCD panel for more than 2 hours as it can cause screen image retention. This image retention is also known as "screen burn". To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.
- Watching the LCD TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and center of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause a similar effect to the screen. Damages caused by the above effect are not covered by the Warranty.
- Displaying still images from Video games and PC for longer than a certain period of time may produce partial after-images.
  To prevent this effect, reduce the ‘brightness’ and ‘contrast’ when displaying still images.

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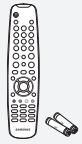
Symbol	Press	Note	One-Touch Button

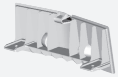
List of Parts

Please make sure the following items are included with your LCD TV.
If any items are missing, contact your dealer.



Remote Control & Batteries (AAA x 2)

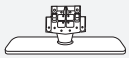
Power Cord



Cover-Bottom

M4 X L16

Stand Screw X 4



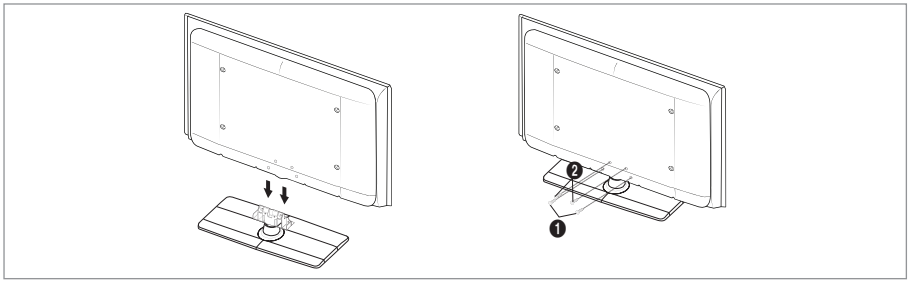
Stand

Cleaning Cloth

- Owner's Instructions
- Registration Cards

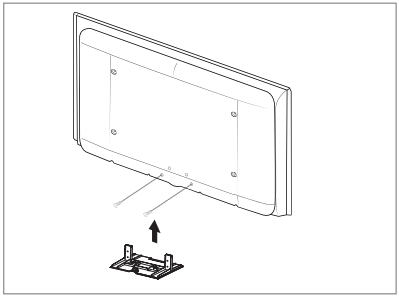
➢ Registration Cards (Not available in all locations)

Installing the Stand



1. Connect your LCD TV and the stand.
   - ➢ Two or more people should carry the TV.
   - ➢ Make sure to distinguish between the front and back of the stand when assembling them.
2. Fasten two screws at position ❶ and then fasten two screw at position ❷.
   - ➢ Stand the product up and fasten the screws. If you fasten the screws with the LCD TV placed down, it may lean to one side.
   - ➢ The stand is installed for models with the screen size of 37 inch and above.

Installing the Wall Mount Kit



Wall mount items (sold separately) allow you to mount the TV on the wall.

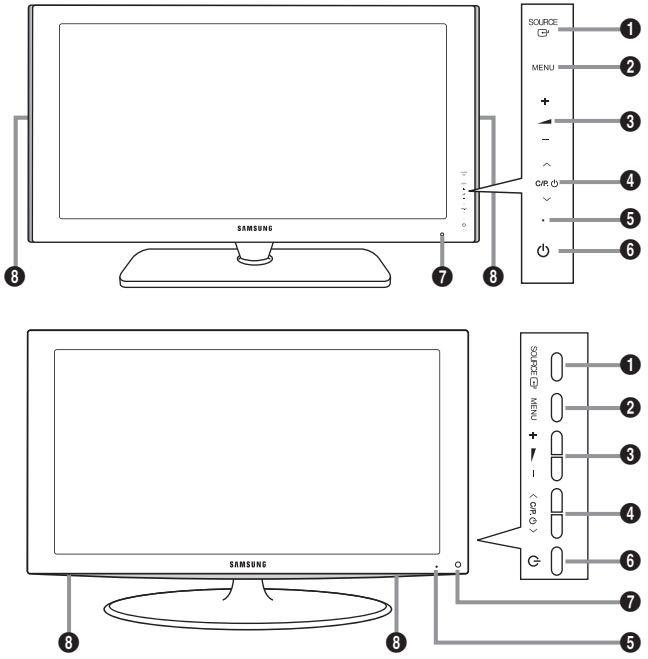
For detailed information on installing the wall mount, see the instructions provided with the Wall Mount items. Contact a technician for assistance when installing the wall mounted bracket.

Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV on your own.

Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.

➢ Remove the stand and cover the bottom hole with a cap and fasten with two screws.

Viewing the Control Panel



➢ The product colour and shape may vary depending on the model.

❶ **SOURCE**
Toggles between all the available input sources (TV, Ext.1, Ext.2, AV, S-Video, Component, PC, HDMI1, HDMI2, HDMI3). In the on-screen menu, use this button as you use the **ENTER** button on the remote control.

❷ **MENU**
Press to see an on-screen menu of your TV's features.

❸ **– +**
Press to decrease or increase the volume. In the on-screen menu, use the – + buttons as you use the ◄ and ► buttons on the remote control.

❹ **C/P.**
Press to change channels.
In the on-screen menu, use the C/P. buttons as you use the ▼ and ▲ buttons on the remote control.
(Without the Remote Control, you can turn on the TV by using the Channel buttons.)

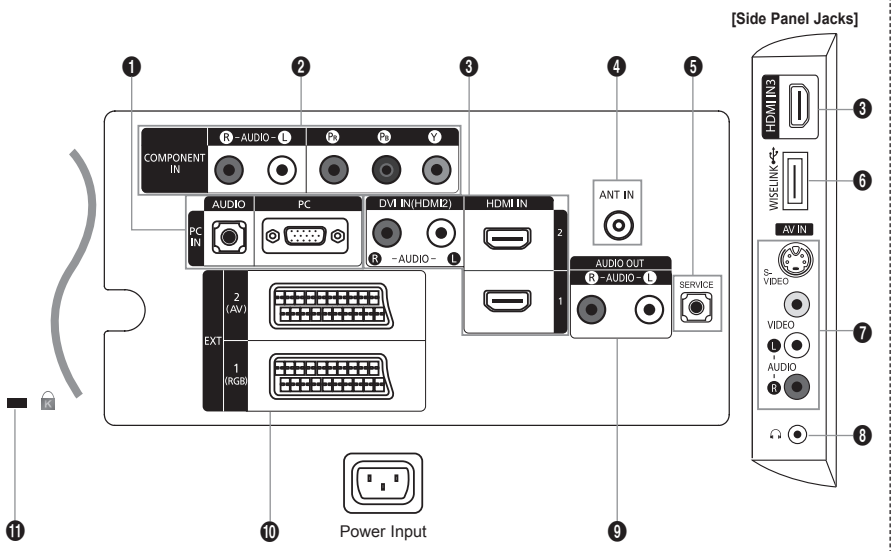
❺ **Power Indicator**
Blinks and turns off when the power is on and lights up in stand-by mode.

❻ **(Power)**
Press to turn the TV on and off.

❼ **Remote Control Sensor**
Aim the remote control towards this spot on the TV.

❽ **Speakers**

Viewing the Connection Panel



➢ The product colour and shape may vary depending on the model.

➢ Whenever you connect an external device to your TV, make sure that power on the unit is turned off

➢ When connecting an external device, match the colour of the connection terminal to the cable.

❶ PC IN [PC] / [AUDIO]

- Connect to the video and audio output jack on your PC.

❷ COMPONENT IN

- Connect component video cables (optional) to component connector ("P_R", "P_B", "Y") on the rear of your set and the other ends to corresponding component video out connectors on the DVD.
- If you wish to connect both the Set-Top Box and DVD, you should connect the Set-Top Box to the DVD and connect the DVD to component connector ("P_R", "P_B", "Y") on your set.
- The P_R, P_B and Y connectors on your component devices (DVD) are sometimes labeled Y, B-Y and R-Y or Y, Cb and Cr.
- Connect RCA audio cables (optional) to "R - AUDIO - L" on the rear of your set and the other ends to corresponding audio out connectors on the DVD.

❸ HDMI IN 1, HDMI IN 2, HDMI IN 3

- Supports connections between HDMI-connection-enabled AV devices (Set-Top Boxes, DVD players)
- No additional Audio connection is needed for an HDMI to HDMI connection.
- When using an HDMI/DVI cable connection, you must use the HDMI IN 2 jack.

➢ What is HDMI?

- "High Definition Multimedia interface" allows the transmission of high definition digital video data and multiple channels of digital audio.
- The HDMI/DVI terminal supports DVI connection to an extended device with the appropriate cable (not supplied). The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed, and supports multi - channel digital audio.

➢ The TV may not output sound and pictures may be displayed with abnormal colour when DVD players/Cable Boxes/Satellite receivers supporting HDMI versions older than 1.3 are connected. When connecting an older HDMI cable and there is no sound, connect the HDMI cable to the HDMI IN 2 jack and the audio cables to the DVI IN (HDMI2) [R-AUDIO-L] jacks on the back of the TV. If this happens, contact the company that provided the DVD player/Cable Box/Satellite receiver to confirm the HDMI version, then request a firmware update. HDMI cables that are not 1.3 may cause annoying flicker or no screen display.

DVI IN(HDMI2) [R-AUDIO-L]

- DVI audio outputs for external devices.

➢ Supported modes for HDMI/DVI and Component

	480i	480p	576i	576p	720p	1080i	1080p
HDMI/DVI 50Hz	X	X	X	O	O	O	O
HDMI/DVI 60Hz	X	O	X	X	O	O	O
Component	O	O	O	O	O	O	O

❹ **ANT IN**

To view television channels correctly, a signal must be received by the set from one of the following sources:

- An outdoor aerial / A cable television network / A satellite network

❺ **SERVICE**

Connect this to the jack on the optional wall mount bracket. This will allow you to adjust the TV viewing angle using your remote control.

❻ **WISELINK**

- Connect a USB mass storage device to view photo files (JPEG) and play audio files (MP3)

❼ **S-VIDEO or VIDEO / R-AUDIO-L**

- Connect RCA or S-VIDEO cable to an appropriate external A/V device such as VCR, DVD or Camcorder.
- Connect RCA audio cables to "R-AUDIO-L" on your set and the other ends to corresponding audio out connectors on the A/V device.

❽ **Headphones jack**

- Headphone may be connected to the headphone output on your set. While the head phone is connected, the sound from the built-in speakers will be disabled.

❾ **AUDIO OUT [R-AUDIO-L]**

- Connect RCA audio cables to AUDIO OUT [R-AUDIO-L] on the rear of your set and the other ends to corresponding audio in connectors on the Amplifier or DVD Home Theatre.

❿ **EXT 1, EXT 2**

Connector	Input			Output
	Video	Audio (L/R)	RGB	Video + Audio (L/R)
EXT 1	O	O	O	Only TV output is available.
EXT 2	O	O		Output you can choose.

- Inputs or outputs for external devices, such as VCR, DVD, video game device or video disc players.

⓫ **Kensington Lock (depending on the model)**

- The Kensington lock (optional) is a device used to physically fix the system when used in a public place.
- If you want to use a locking device, contact the dealer where you purchased the TV.
- The location of the kensington lock may be different depending on its model.

Viewing the Remote Control

❶ Television Standby button

❷ Selects the TV mode directly

❸ Number buttons for direct channel access

❹ One/Two-digit channel selection

❺ ⊕: Volume increase
⊖: Volume decrease

❻ Temporary sound switch-off

❼ It display "Channel List" on the screen.

❽ Use to quickly select frequently used functions.

❾ Use to see information on the current broadcast

❿ Colour buttons :
Use these buttons in the Channel list and WISELINK, etc.

⓬ Press to select the optional display and sound modes for sports, cinema and games.

⓭ Use these buttons in the DMA, WISELINK, and Anynet+.
(⊙: This remote can be used to control recording on Samsung recorders with the Anynet+ feature)

⓮ Available source selection

⓯ Previous channel

⓰ P∧: Next channel
P∨: Previous channel

⓱ Displays the main on-screen menu

⓲ This function enables you to view and play photo and music files from an external device.

⓳ Returns to the previous menu

⓴ Control the cursor in the menu

㉑ Exit the on-screen menu

㉒ Use this when connecting a SAMSUNG DMA (Digital Media Adapter) device through an HDMI interface and switching to DMA mode. (The DMA button is optional.) For more information on the operating procedures, refer to the user manual of the DMA. This button is available when “Anynet+(HDMI-CEC)" is “On” (see page 38)

㉓ Picture size selection

㉔ Selects the HDMI mode directly.

㉕ Picture effect selection

Teletext Functions

❷ Exit from the teletext display

❼ Teletext store

❽ Teletext size selection

❾ Teletext reveal

❿ Fastext topic selection

⓫ Alternately select Teletext, Double, or Mix.

⓮ Teletext mode selection (LIST/FLOF)

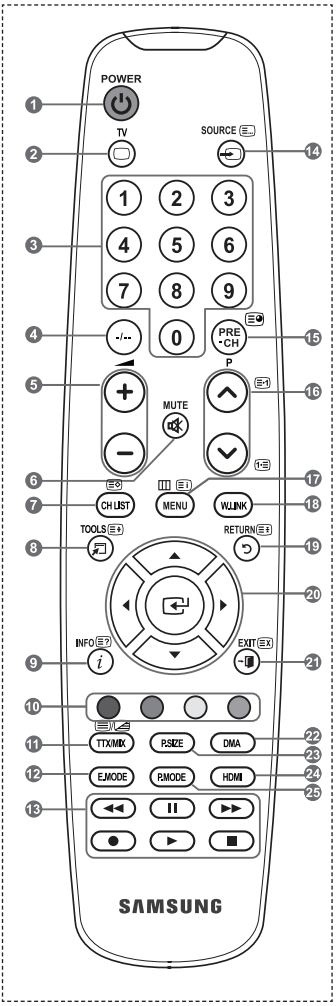
⓯ Teletext sub page

⓰ P∧: Teletext next page
P∨: Teletext previous page

⓱ Teletext index

⓳ Teletext hold

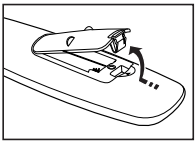
㉑ Teletext cancel

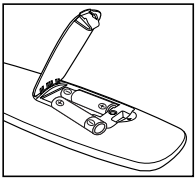


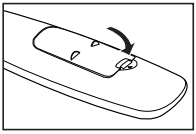
➢ The performance of the remote control may be affected by bright light.

Installing Batteries in the Remote Control

1. Lift the cover at the back of the remote control upward as shown in the figure.
2. Install two AAA size batteries.
   ➢ Make sure to match the "+" and "–" ends of the batteries with the diagram inside the compartment.
3. Replace the cover.
   ➢ Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.







➢ If the remote control doesn't work, check the following:
1. Is the TV power on?
2. Are the plus and minus ends of the batteries reversed?
3. Are the batteries drained?
4. Is there a power outage, or is the power cord unplugged?
5. Is there a special fluorescent light or neon sign nearby?

Switching On and Off

The mains lead is attached to the rear of your set.

1. Plug the mains lead into an appropriate socket.
   ➢ The standby indicator lights up on your set.
2. Press the ⏻ button on your set.
   ➢ You also can press the **POWER** ⏻ button or the **TV** button on the remote control to turn the TV on.
   ➢ The programme that you were watching last is reselected automatically.
3. Press the numeric button (0~9) or channel up/down (⌃/⌄) button on the remote control or ⌄ C/P. ⏻ ⌃ button on your set.
   ➢ When you switch the set on for the very first time, you will be asked to choose language in which the menus are to be displayed.
4. To switch your set off, press the **POWER** ⏻ button again.

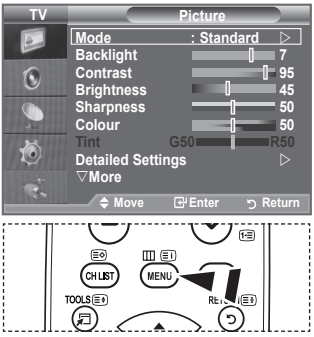
Placing Your Television in Standby Mode

Your set can be placed in standby mode in order to reduce the power consumption. The standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

1. Press the **POWER**⏻ button on the remote control.
   ➢ The screen is turned off and a red standby indicator appears on your set.
2. To switch your set back on, simply press the **POWER**⏻, numeric buttons **(0~9)**, **TV** button or channel up/down (⌃/⌄) button again.
   ➢ Do not leave your set in standby mode for long periods of time (when you are away on holiday, for example).
   It is best to unplug the set from the mains and aerial.

Viewing the Menus

1. With the power on, press the **MENU** button.
   The main menu appears on the screen. The menu' s left side has icons: Picture, Sound, Channel, Setup, Input.
2. Press the ▲ or ▼ button to select one of the icons.
   Then press the **ENTER** button to access the icon's sub-menu.
3. Press the **EXIT** button to exit.
   ➢ The on-screen menus disappear from the screen after about one minute.

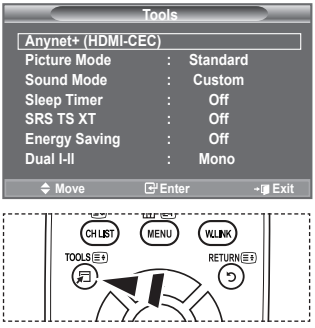


Using the TOOLS Button

You can use the TOOLS button to select your frequently used functions quickly and easily. The "Tools" menu change depending on which external input mode you are viewing.

1. Press the **TOOLS** button.
   The "Tools" menu will appear.
2. Press the ▲ or ▼ button to select a menu.
3. Press the ▲/▼/◄/►/**ENTER** buttons to display, change, or use the selected items. For a more detailed description of each function, refer to the corresponding page.

- ♦ Anynet+ (HDMI-CEC), see page 38
- ♦ Picture Mode, see page 15
- ♦ Sound Mode, see page 21
- ♦ Sleep Timer, see page 23
- ♦ SRS TS XT, see page 21
- ♦ Energy Saving, see page 26
- ♦ Dual I-II, see page 22
- ♦ PIP, see page 20
- ♦ Auto Adjustment, see page 29



Plug & Play

When the TV is initially powered on, several basic settings proceed automatically and subsequently. The following settings are available.

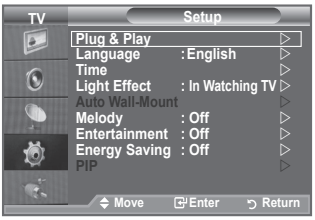
- ➢ The Screen Saver is activated if there is no remote control key input for longer than 1 minute while "Plug & Play" is running.
- ➢ The Screen Saver is activated if there is no operating signal for longer than 15 minutes.

1. Press the **POWER**⏻ button on the remote control.
   The message "Start Plug & Play" is displayed with "OK" selected.
2. Select the appropriate language by pressing the ▲ or ▼ button.
   Press the **ENTER**↵ button to confirm your choice.
3. Press the ◄ or ► button to select “Store Demo” or “Home Use”, then the **ENTER**↵ button.
   - ➢ We recommend setting the TV to "Home Use" mode for the best picture in your home environment.
   - ➢ "Store Demo" mode is only intended for use in retail environments.
   - ➢ If the unit is accidentally set to “Store Demo” mode and you want to return to “Home Use” (Standard): Press the Volume button on the TV. When the volume OSD is displayed, press and hold the **MENU** button on the TV for 5 seconds.
4. The message "Check antenna input." is displayed with "OK" selected.
   Press the **ENTER**↵ button.
   - ➢ Please check that the antenna cable is connected correctly.
5. Select the appropriate country by pressing the▲ or ▼ button.
   Press the **ENTER**↵ button to confirm your choice.
6. The "Auto Store" menu is displayed with the "Start" selected. Press the **ENTER**↵ button.
   - ➢ The channel search will start and end automatically.
   - ➢ Press the **ENTER**↵ button at any time to interrupt the memorization process.
   - ➢ After all the available channels are stored, the "Clock Set" menu appears.
7. Press the **ENTER**↵ button.
   Select the "Month", "Day", "Year", "Hour", or "Minute" by pressing the ◄ or ► button.
   Set the "Month", "Day", "Year", "Hour", or "Minute" by pressing the ▲ or ▼ button.
   - ➢ You can also set the “Month”, “Day”, “Year”, “Hour” and "Minute" by pressing the number buttons on the remote control.
8. Press the **ENTER**↵ button to confirm your setting. The message “Enjoy your viewing” is displayed.
   When you have finished, press the **ENTER**↵ button.
   - ➢ Even if the **ENTER**↵ button is not pressed, the message will automatically disappear after several seconds.

- ♦ **Language:** Select your language.
- ♦ **Country:** Select your country.
- ♦ **Auto Store:** Automatically scans for and stores channels available in the local area.
- ♦ **Clock Set:** Sets the current time for the TV clock.

If you want to reset this feature...

1. Press the **MENU** button to display the menu.
   Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.
2. Press the **ENTER** button again, to select "Plug & Play".
   For further details on setting up options, refer to the page 9.
   ➢ The “Plug & Play” feature is only available in the TV mode.



- Storing Channels Automatically
- Storing Channels Manually

Storing Channels Automatically

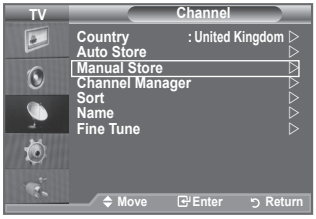
You can scan for the frequency ranges available to you (and availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However, you can sort numbers manually and clear any channels you do not wish to watch.

1. Press the **MENU** button to display the menu.
   Press the ▲ or ▼ button to select "Channel", then press the **ENTER** button.
2. Press the **ENTER** button to select "Country".
3. Select the appropriate country by pressing the ▲ or ▼ button.
   Press the **ENTER** button to confirm your choice.
4. Press the ▲ or ▼ button to select "Auto Store", then press the **ENTER** button.
5. Press the **ENTER** button.
   ➢ The TV will begin memorizing all of the available channels.
   ➢ Press the **ENTER** button at any time to interrupt the memorization process and return to the "Channel" menu.
6. After all the available channels are stored, the "Sort" menu appears. (refer to page 13)

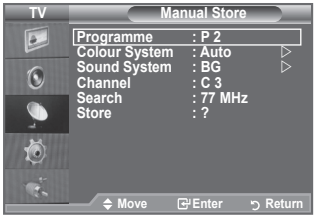
Storing Channels Manually

You can store television channels, including those received via cable networks.
When storing channels manually, you can choose:

- Whether or not to store each of the channels found.
- The programme number of each stored channel which you wish to identify.



1. Press the **MENU** button to display the menu.
   Press the ▲ or ▼ button to select "Channel", then press the **ENTER** button.
2. Press the ▲ or ▼ button to select "Manual Store", then press the **ENTER** button.
3. Select the required option by pressing the ▲ or ▼ button, then press the **ENTER** button.
4. When you are satisfied with your setting, press the **ENTER** button.
5. Press the **EXIT** button to exit.



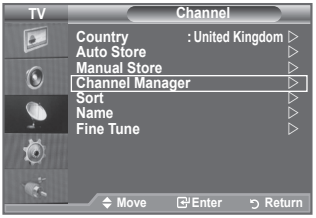
- **Programme** (Programme number to be assigned to a channel)
  - Press the ▲ or ▼ button until you find the correct number.
  - ➢ You can also select the channel number directly by pressing the numeric buttons (0~9).
- **Colour System: Auto/PAL/SECAM/NTSC4.43**
  - Press the ▲ or ▼ button to select the required colour standard.
- **Sound System: BG/DK/I/L**
  - Press the ▲ or ▼ button to select the required sound standard.
- **Channel** (When you know the number of the channel to be stored)
  - Press the ▲ or ▼ button to select **C** (Air channel) or **S** (Cable channel).
  - Press the ► button, then press the ▲ or ▼ button to select the required number.
  - ➢ You can also select the channel number directly by pressing the numeric buttons (0~9).
  - ➢ If there is abnormal sound or no sound, re-select the sound standard required.
- **Search** (When you do not know the channel numbers)
  - Press the ▲ or ▼ button to start the search.
  - The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen.
- **Store** (When you store the channel and associated programme number)
  - Set to "OK" by pressing the **ENTER** button.

➢ **Channel mode**

- **P** (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to P99. You can select a channel by entering the position number in this mode.
- **C** (Air channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
- **S** (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.

Adding / Locking Channels

Using the Channel Manager, you can conveniently lock or add channels.

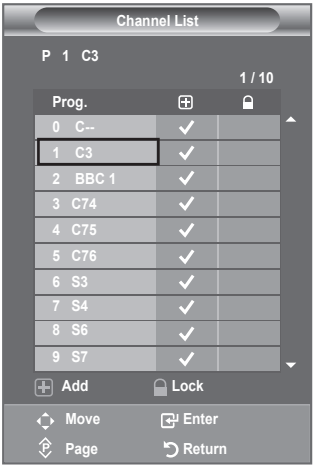


1. Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select "Channel", then press the **ENTER** button.
2. Press the ▲ or ▼ button to select "Channel Manager", then press the **ENTER** button.

♦ **Adding channels**
Using the Channel List, you can add channels.

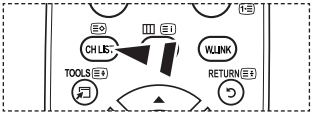
3. Select Channel List by pressing the **ENTER** button.
4. Move to the (⊕) field by pressing the ▲, ▼, ◄ or ► button, select a channel to be added, and press the **ENTER** button to add the channel.
   - ➢ If you press the **ENTER** button again, the (✓) symbol next to the channel disappears and the channel is not added.
   - ➢ "🔒" is active when "Child Lock" is selected to "On".

♦ **Locking channels**
This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio.



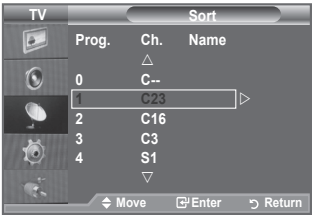
5. Press the ▲ or ▼ button to select "Child Lock", then press the **ENTER** button.
6. Select "On" by pressing the ▲ or ▼ button, then press the **ENTER** button.
7. Press the ▲ or ▼ button to select "Channel List", then press the **ENTER** button.
8. Move to the (🔒) field by pressing the ▲, ▼, ◄ or ► button, select a channel to be locked, and press the **ENTER** button.
   - ➢ If you press the **ENTER** button again, the (✓) symbol next to the channel disappears and the channel lock is cancelled.
   - ➢ A blue screen is displayed when "Child Lock" is activated.
9. Press the **EXIT** button to exit.
   - ➢ Select "On" or "Off" in "Child Lock" to easily turn the channels which selected on "🔒" to be active or inactive.

You can select these options by simply pressing the **CH LIST** button on the remote control



Sorting the Stored Channels

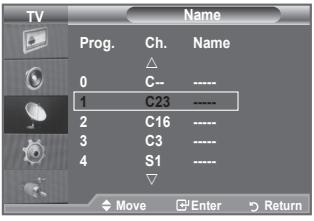
This operation allows you to change the programme numbers of the stored channels.
This operation may be necessary after using the auto store.



1. Press the **MENU** button to display the menu.
   Press the ▲ or ▼ button to select "Channel", then press the **ENTER** button.
2. Press the ▲ or ▼ button to select "Sort", then press the **ENTER** button.
3. Select the channel number that you wish to change by pressing the ▲ or ▼ button repeatedly.
   Press the **ENTER** button.
   ➢ The selected channel number and name are moved to right side.
4. Press the ▲ or ▼ button to move to the position in which you would like to change and then press the **ENTER** button.
   ➢ The selected channel is exchanged with the one previously stored to the chosen number.
5. Repeat steps **3** to **4** for another channel to be sorted.
6. Press the **EXIT** button to exit.

Assigning Channels Names

Channel names will be assigned automatically when channel information is broadcast. These names can be changed, allowing you to assign new names.



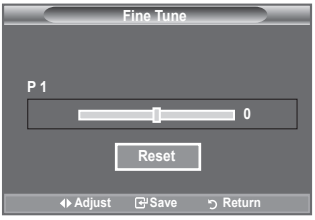
1. Press the **MENU** button to display the menu.
   Press the ▲ or ▼ button to select "Channel", then press the **ENTER** button.
2. Press the ▲ or ▼ button to select "Name", then press the **ENTER** button.
3. If necessary, select the channel to be assigned to a new name by pressing the ▲ or ▼ button. Press the **ENTER** button
   ➢ The selection bar is displayed around the name box.
4.

To...	Then...
Select a letter, number or symbol	Press the ▲ or ▼ button
Move on the next letter	Press the ► button
Move back the previous letter	Press the ◄ button
Confirm the name	Press the **ENTER** button

   ➢ The following characters are available: Letters of the alphabet (A~Z) / Numbers (0~9) / Special characters (+, -, *, /, space)
5. Repeat steps **3** to **4** for each channel to be assigned to a new name.
6. Press the **EXIT** button to exit.

Fine Tuning Channel Reception

Use fine tuning to manually adjust a particular channel for optimal reception.



1. Use the number buttons to directly select the channel that you want to fine tune.
2. Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select "Channel", then press the **ENTER** button.
3. Press the ▲ or ▼ button to select "Fine Tune", then press the **ENTER** button.
4. Press the ◄ or ► button to adjust the fine tuning. Press the **ENTER** button.
5. Press the **EXIT** button to exit.

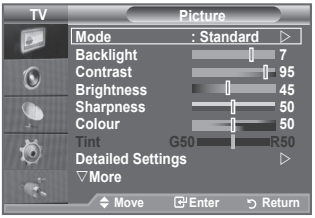
➢ Fine tuned channels that have been saved are marked with an asterisk "*" on the right-hand side of the channel number in the channel banner. And the channel number turns red.

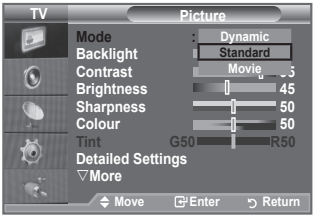
➢ To reset the fine-tuning, select "Reset" by pressing the ▲ or ▼ button and then press the **ENTER** button.

Changing the Picture Standard

You can select the type of picture which best corresponds to your viewing requirements.

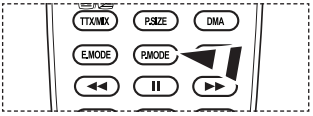
1. Press the **MENU** button to display the menu.
   Press the **ENTER** button, to select "Picture".
2. Press the **ENTER** button again, to select "Mode".
3. Press the ▲ or ▼ button to select the desired picture effect.
   Press the **ENTER** button.
4. Press the **EXIT** button to exit.





- ♦ **Dynamic**: Selects the picture for high-definition in a bright room.
- ♦ **Standard**: Selects the picture for optimum display in a normal environment.
- ♦ **Movie**: Selects the picture for comfortable display in a dark room.

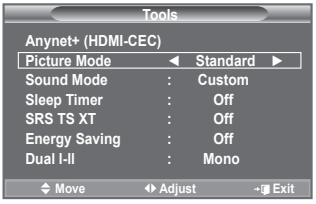
➢ The Picture mode must be adjusted separately for each input source.



You can also press the **P.MODE** button on the remote control to select one of the picture settings.

Easy Setting

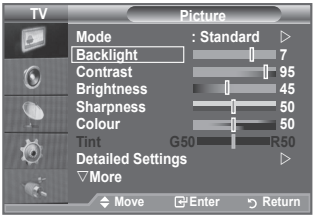
1. Press the **TOOLS** button on the remote control.
2. Press the ▲ or ▼ button to select “Picture Mode”.
3. Press the ◄ or ► button to select the desired picture mode.
4. Press the **EXIT** or **TOOLS** button to exit.



Adjusting the Custom Picture

Your set has several settings which allow you to control picture quality.

1. To select the desired picture effect, follow the "Changing the Picture Standard" instructions number 1 to 3.
2. Press the ▲ or ▼ button to select a particular item. Press the **ENTER** button.
3. Press the ◄ or ► button to decrease or increase the value of a particular item. Press the **ENTER** button.
4. Press the **EXIT** button to exit.



- **Backlight:** Adjusts the screen brightness by adjusting the LCD backlight brightness. (0~10)
- **Contrast:** Adjusts the lightness and darkness between objects and the background.
- **Brightness:** Adjusts the brightness of the whole screen.
- **Sharpness:** Adjusts the outline of objects to either sharpen them or make them more dull.
- **Colour:** Adjusts the colours, making them lighter or darker.
- **Tint:** Adjusts the colour of objects, making them more red or green for a more natural look.

➢ The adjusted values are stored according to the selected Picture mode.

➢ In PC mode, you can only make changes to "Backlight", “Contrast" and “Brightness”.

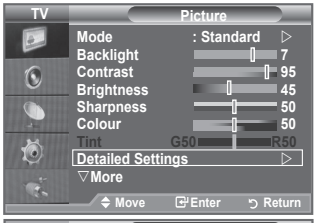
➢ TV, Ext., AV, S-Video modes of the PAL system, you cannot use the "Tint" Function.

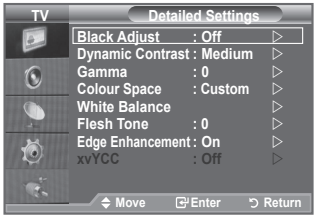
➢ You can return to the factory defaults picture settings by selecting the "Reset". (Refer to "Resetting the Picture Settings to the Factory Defaults" on page 17)

Configuring Detailed Settings on the Picture

You can set detailed picture settings.

1. Press the **MENU** button to display the menu. Press the **ENTER** button, to select "Picture".
2. Press the **ENTER** button to select “Mode”. Press the ▲ or ▼ button to select “Standard” or “Movie”, then press the **ENTER** button.
3. Press the ▲ or ▼ button to select "Detailed Settings", then press the **ENTER** button.
4. Select the required option by pressing the ▲ or ▼ button, then press the **ENTER** button.
5. When you are satisfied with your setting, press the **ENTER** button.
6. Press the **EXIT** button to exit.





➢ "Detailed Settings" is available in "Standard" or "Movie" mode.

➢ In PC mode, you can only make changes to “Dynamic Contrast”, “Gamma” and “White Balance” from among the “Detailed Settings” items.

- **Black Adjust: Off/Low/Medium/High**
  You can directly select the black level on the screen to adjust the screen depth.
- **Dynamic Contrast: Off/Low/Medium/High**
  You can adjust the screen contrast so that the optimal contrast is provided.

♦ **Gamma: -3 ~ +3**
You can adjust the Primary Colour (Red, Green, Blue) Intensity.
Press the ◄ or ► button until you reach the optimal setting.

♦ **Colour Space: Auto/Native/Custom**
Colour space is a Colour matrix composed of “Red”, “Green” and “Blue” Colours.
Select your favourite Colour space to experience the most natural Colour.

- ♦ **Auto:** Auto Color Space automatically adjusts to the most natural color tone based on program sources.
- ♦ **Native:** Native Color Space offers deep and rich color tone.
- ♦ **Custom:** Adjusts the color range to suit your preference.

➢ **Customizing the Colour Space**
Colour: Red/Green/Blue/Yellow/Cyan/Magenta
Adjusts the Colour range to suit your preference.
“Colour” is available when “Colour Space” is set to “Custom”.
Press the ▲ or ▼ button to select “Red”, “Green”, “Blue”, “Yellow”, “Cyan” or “Magenta”.
Press the **ENTER** button.
Red/Green/Blue: In “Colour”, you can adjust the RGB values for the selected colour.
Press the ▲ or ▼ button to select "Red", "Green" or "Blue" to change it.
Press the **ENTER** button.
Press the ◄ or ► button to decrease or increase the value of a particular item. Press the **ENTER** button.
Reset: Resets the colour space to the default values.

♦ **White Balance: R-Offset/G-Offset/B-Offset/R-Gain/G-Gain/B-Gain/Reset**
You can adjust the colour temperature for more natural picture colours.
R-Offset/G-Offset/B-Offset/R-Gain/G-Gain/B-Gain: Changing the adjustment value will refresh the adjusted screen.
Select the required option by pressing the ▲ or ▼ button, then press the **ENTER** button.
Press the ◄ or ► button until you reach the optimal setting.
Reset: The previously adjusted white balance will be reset to the factory defaults.

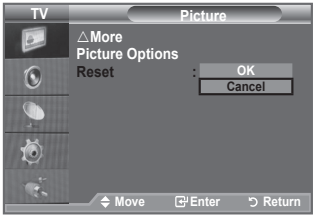
♦ **Flesh Tone: -15 ~ +15**
You can emphasize the pink 'flesh tone' in the picture.
Press the ◄ or ► button until you reach the optimal setting.
➢ Changing the adjustment value will refresh the adjusted screen.

♦ **Edge Enhancement: Off/On**
You can emphasize object boundaries in the picture.

♦ **xvYCC: Off/On**
Setting the xvYCC mode to On increases detail and colour space when watching movies from an external device (ie. DVD player) connected to the HDMI or Component IN jacks. You must set the Picture Mode to Movie to enjoy this feature.
➢ Only available in "HDMI" and "Component" on "Movie" mode.
➢ If xvYCC function is active, PIP cannot be selected.

Resetting the Picture Settings to the Factory Defaults

You can return to the factory defaults picture settings.



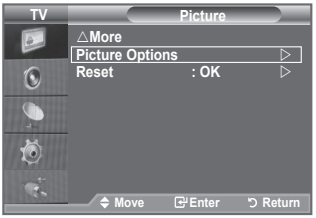
1. To select the desired picture effect, follow the "Changing the Picture Standard" instructions number 1 to 3 (On page 15).
2. Press the ▲ or ▼ button to select "Reset", then press the **ENTER** button.
3. Press the ▲ or ▼ button to select "OK" or "Cancel".
Press the **ENTER** button.
4. Press the **EXIT** button to exit.

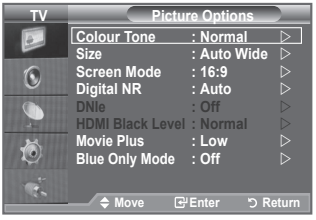
➢ The "Reset" will be set for each "Picture" mode.

Configuring Picture Option

1. Press the **MENU** button to display the menu.
   Press the **ENTER** button, to select "Picture".
2. Press the ▲ or ▼ button to select "Picture Options", then press the **ENTER** button.
3. Select the required option by pressing the ▲ or ▼ button, then press the **ENTER** button.
4. When you are satisfied with your setting, press the **ENTER** button.
5. Press the **EXIT** button to exit.

   ➢ In PC mode, you can only make changes to the “Colour Tone” and “Size” from among the items in “Picture Options”.





♦ **Colour Tone: Cool2/Cool1/Normal/Warm1/Warm2**
You can select the most comfortable colour tone to your eyes.

➢ The adjusted values are stored according to the selected "Picture" mode.

➢ “Warm1” or “Warm2” is only activated when the picture mode is "Movie".

♦ **Size: Auto Wide/16:9/Wide Zoom/Zoom/4:3/Just Scan**
You can select the picture size which best corresponds to your viewing requirements.

- ♦ **Auto Wide:** Automatically adjusts the picture size to the "16:9" aspect ratio.
- ♦ **16:9:** Adjusts the picture size to 16:9 appropriate for DVDs or wide broadcasting.
- ♦ **Wide Zoom:** Magnify the size of the picture more than 4:3.
- ♦ **Zoom:** Magnifies the 16:9 wide picture (in the vertical direction) to fit the screen size.
- ♦ **4:3:** This is the default setting for a video movie or normal broadcasting.
- ♦ **Just Scan:** Use the function to see the full image without any cutoff when HDMI (720p/1080i/1080p) or Component (1080i/1080p) signals are input.

➢ "Auto Wide" function is available only in "TV", "Ext.1", "Ext.2", "AV", and "S-Video" mode.

➢ In PC Mode, only "16:9" and "4:3" mode can be adjusted.

➢ Settings can be adjusted and stored for each external device you have connected to an input of the TV.

➢ Temporary image retention may occur when viewing a static image on the set for more than two hours.

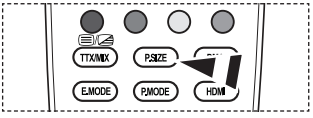
➢ "Wide Zoom": Move the screen up/down using the ▲ or ▼ button after selecting the by pressing the ► or **ENTER** button.

➢ "Zoom": Select by pressing the ◄ or ►button. Use the ▲ or ▼ button to move the picture up and down. After selecting , use the ▲ or ▼ button to magnify or reduce the picture size in the vertical direction.

➢ When Double (,) mode has been set in PIP, the Picture Size cannot be set.

➢ **After selecting “Just Scan” in HDMI (1080i/1080p) or Component (1080i/1080p) mode**: Select by pressing the ◄ or ►button. Use the ▲, ▼, ◄ or ► button to move the picture.
Reset: Press the ◄ or ► button to select “Reset”, then press the **ENTER** button.
You can initialize the setting.

You can select these options by simply pressing the **P.SIZE** button on the remote control.



♦ **Screen Mode: 16:9/Wide Zoom/Zoom/4:3**

When setting the picture size to "Auto Wide" in a 16:9 wide TV, you can determine the picture size you want to see the 4:3 WSS (Wide Screen Service) image or nothing. Each individual European country requires different picture size so this function is intended for users to select it.

- ♦ **16:9:** Sets the picture to 16:9 wide mode.
- ♦ **Wide Zoom:** Magnify the size of the picture more than 4:3.
- ♦ **Zoom:** Magnify the size of the picture vertically on screen.
- ♦ **4:3:** Sets the picture to 4:3 normal mode.

➢ This function is available in "Auto Wide" mode.

➢ This function is not available in "PC", "Component" or "HDMI" mode.

♦ **Digital NR: Off/Low/Medium/High/Auto**

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

➢ When the signal is weak, select one of the other options until the best picture is displayed.

♦ **DNIe: Off/ Demo/On**

This TV includes the DNIe function so as to provide a high visual quality. If you set DNIe to on, you can view the screen with the DNIe feature activated. If you set the DNIe to Demo, you can view the applied DNIe and normal pictures on the screen, for demonstration purposes. Using this function, you can view the difference in the visual quality.

➢ DNIe™ (Digital Natural Image engine) DNIe™
This feature brings you more detailed image with 3D noise reduction, detail enhancement, contrast enhancement and white enhancement. New image compensation Algorithm gives brighter, clearer, more detailed image to you. DNIe™ technology will fit every signal into your eyes.

➢ This function is not available in "Movie" and "Standard" mode.

♦ **HDMI Black Level: Normal/Low**

You can directly select the black level on the screen to adjust the screen depth.

➢ This function is active only when the external input connects to HDMI(RGB signals).

♦ **Movie Plus: Off/Low/Medium/High/Demo**

You can view more natural skin and clear text even in fast moving scenes.

➢ Use this function when watching movies.

➢ This function is not available in “Wide Zoom” and “Zoom” modes.

➢ This function is not available when "PIP" is set to "On".

➢ It is not supported in HDMI 1080p/24Hz mode.

♦ **Blue Only Mode: Off/On**

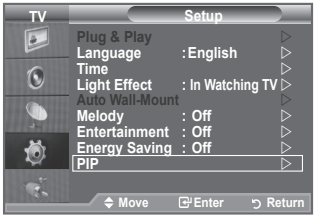
This function is for AV device measurement experts. This function displays the blue signal only by removing the red and green signals from the video signal so as to provide a Blue Filter effect that is used to adjust the Colour and Tint of video equipment such as DVD players, Home Theaters, etc.

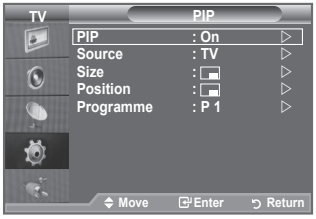
Using this function, you can adjust the Colour and Tint to preferred values appropriate to the signal level of each video device using the Red/Green/Blue/ Cyan/Magenta/Yellow Colour Bar Patterns, without using an additional Blue Filter.

➢ “Blue Only Mode” is available when the picture mode is set to “Movie” or “Standard”.

Viewing the Picture In Picture (PIP)

You can display a sub picture within the main picture of set programme or video input. In this way, you can watch the picture of set programme or video input from any connected equipment while watching the main picture.



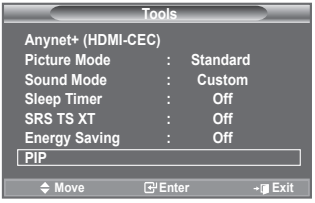


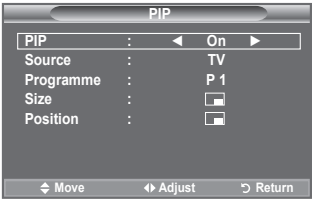
1. Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.
2. Press the▲ or ▼ button to select "PIP", then press the **ENTER** button.
3. Select the required option by pressing the ▲ or ▼ button, then press the **ENTER** button.
4. When you are satisfied with your setting, press the **ENTER** button.
5. Press the **EXIT** button to exit.

➢ You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.

Easy Setting

1. Press the **TOOLS** button on the remote control.
2. Press the ▲ or ▼ button to select “PIP”, then press the **ENTER** button.
3. Press the ▲ or ▼ button to select a particular item.
4. Press the ◄ or ► button to select the required option.
5. Press the **EXIT** or **TOOLS** button to exit.





♦ **PIP: On/Off**

You can activate or deactivate the PIP function.

Main picture	Sub picture
Component	TV, Ext.1, Ext.2, AV
HDMI 1, 2, 3	TV, Ext.1, Ext.2, AV
PC	TV, Ext.1, Ext.2, AV

♦ **Source**

You can select a source of the sub-picture.

♦ **Size:** / /

You can select a size of the sub-picture.

➢ If main picture is in "HDMI" mode, "Size" is available.

♦ **Position:** / / /

You can select a position of the sub-picture.

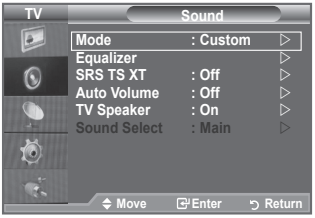
➢ In Double (,) mode, "Position" cannot be selected.

♦ **Programme**

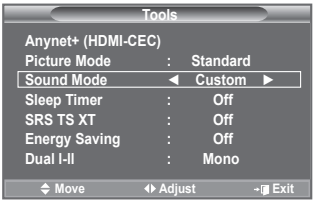
You can select a channel of the sub-picture only when the "Source" is set to "TV".

Sound Features

1. Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select "Sound", then press the **ENTER** button.
2. Select the required option by pressing the ▲ or ▼ button, then press the **ENTER** button.
3. When you are satisfied with your setting, press the **ENTER** button.
4. Press the **EXIT** button to exit.



♦ **Mode: Standard/Music/Movie/Speech/Custom**
You can select the type of special sound effect to be used when watching a given broadcast.

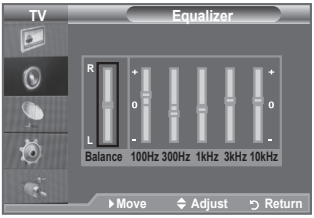


Easy Setting

1. Press the **TOOLS** button on the remote control.
2. Press the ▲ or ▼ button to select "Sound Mode".
3. Press the ◄ or ► button to select the desired sound mode.
4. Press the **EXIT** or **TOOLS** button to exit.

♦ **Equalizer: Balance/100Hz/300Hz/1kHz/3kHz/10kHz**
The sound settings can be adjusted to suit your personal preferences.

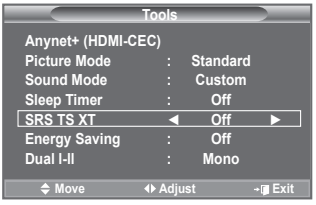
➢ If you make any changes to these settings, the sound mode is automatically switched to "Custom".



♦ **SRS TS XT: Off/On**
TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

Easy Setting

1. Press the **TOOLS** button on the remote control.
2. Press the ▲ or ▼ button to select “SRS TS XT”.
3. Press the ◄ or ► button to select the "Off" or "On".
4. Press the **EXIT** or **TOOLS** button to exit.



SRS TruSurround XT

TruSurround XT, SRS and (●) Symbol are trademarks of SRS Labs, Inc. **TruSurround XT** technology is incorporated under license from SRS Labs, Inc.

♦ **Auto Volume: Off/On**
Each broadcasting station has its own signal conditions, and so it is not easy to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

♦ **TV Speaker: Off/On**

If you want to hear the sound through separate speakers, cancel the internal amplifier.

➢ The **+**, **-** and **MUTE** buttons do not operate when the "TV Speaker" is set to Off.

➢ When “TV Speaker” is set to “Off”, you can operate only “Sound Select” (in PIP mode) in Sound menu.

♦ **Sound Select: Main/Sub**

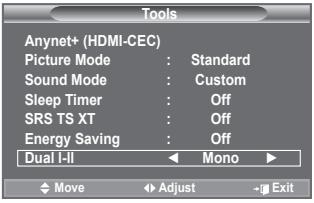
When the PIP feature is activated, you can listen to the sound of the sub (PIP) picture.

− **Main:** Used to listen to the sound of the main picture.

− **Sub:** Used to listen to the sound of the sub picture.

Selecting the Sound Mode

You can set the sound mode in the "Tools" menu.
When you set to "Dual I-II", the current sound mode is displayed on the screen.



1. Press the **TOOLS** button on the remote control.
2. Press the ▲ or ▼ button to select “Dual I-II".
3. Press the ◄ or ► button to select required option.
4. Press the **ENTER** button.

	Audio Type	Dual 1/2	Default
A2 Stereo	Mono	MONO	Automatic change
	Stereo	STEREO ↔ MONO	
	Dual	DUAL 1 ↔ DUAL 2	DUAL 1
NICAM Stereo	Mono	MONO	Automatic change
	Stereo	MONO ↔ STEREO	
	Dual	MONO ↔ DUAL 1 ↔ DUAL 2	DUAL 1

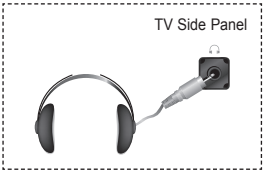
➢ If the stereo signal is weak and an automatic switching occurs, then switch to the Mono.

➢ This function is only activated in stereo sound signal. It is deactivated in mono sound signal.

➢ This function is only available in TV mode.

Connecting Headphones (Sold separately)

You can connect a set of headphones to your set if you wish to watch a TV programme without disturbing the other people in the room.



➢ When you insert the head set jack into the corresponding port, you can operate only "Auto Volume" and "Sound Select"(in PIP mode) in Sound menu.

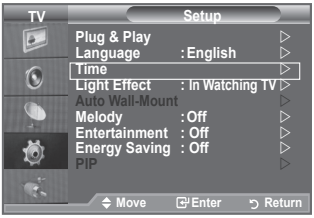
➢ Prolonged use of headphones at a high volume may damage your hearing.

➢ You will not receive sound from the speakers when you connect headphones to the system.

➢ The headphone volume and TV volume are adjusted differently.

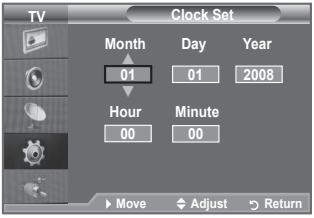
Setting and Displaying the Current Time

You can set the TV's clock so that the current time is displayed when you press the INFO button. You must also set the time if you wish to use the automatic On/Off timers.



1. Press the **MENU** button to display the menu.
   Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.
2. Press the ▲ or ▼ button to select "Time", then press the **ENTER** button.
3. Press the **ENTER** button to select "Clock Set".
4.

To...	Press the....
Move to "Month", "Day", "Year", "Hour" or "Minute"	◄ or ► button.
Set the "Month", "Day", "Year", "Hour" or "Minute"	▲ or ▼ button.
Confirm the setting	**ENTER** button



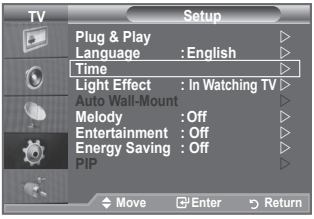
5. Press the **EXIT** button to exit.

➢ The current time will appear every time you press the **INFO** button.

➢ You can also set "Year", "Month", "Day", "Hour" and "Minute" by pressing the number buttons on the remote control.

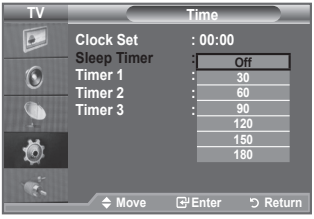
Setting the Sleep Timer

You can select a time period of between 30 and 180 minutes after which the television automatically switches to standby mode.



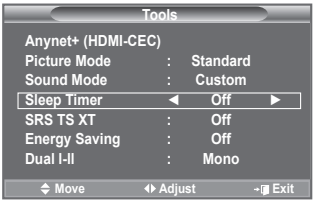
1. Press the **MENU** button to display the menu.
   Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.
2. Press the ▲ or ▼ button to select "Time", then press the **ENTER** button.
3. Press the ▲ or ▼ button to select "Sleep Timer", then press the **ENTER** button.
4. Press the ▲ or ▼ button repeatedly until the desired time appears (Off, 30, 60, 90, 120, 150, 180).
   Press the **ENTER** button.
5. Press the **EXIT** button to exit.

➢ The TV automatically switches to standby mode when the timer reaches 0.

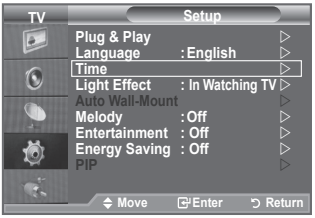


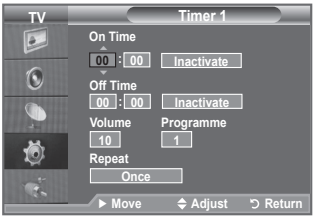
Easy Setting

1. Press the **TOOLS** button on the remote control.
2. Press the ▲ or ▼ button to select "Sleep Timer".
3. Press the ◄ or ► button to select the minute.
4. Press the **EXIT** or **TOOLS** button to exit.



Switching the Television On and Off Automatically





1. Press the **MENU** button to display the menu.
   Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.
2. Press the ▲ or ▼ button to select "Time", then press the **ENTER** button.
3. Press the ▲ or ▼ button to select "Timer 1", "Timer 2", "Timer 3", then press the **ENTER** button.
   Three different On/Off Timer Settings can be made.

➢ You must set the clock first.

4. Press the ◄ or ► button to select the required item below.
   Press the ▲ or ▼ button to adjust to the setting satisfied.

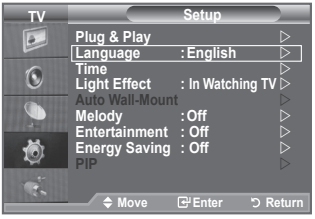
- **On Time** : Select hour, minute and "Activate"/"Inactivate". (To activate timer with the setting satisfied, set to "Activate".)
- **Off Time** : Select hour, minute and "Activate"/"Inactivate". (To activate timer with the setting satisfied, set to "Activate".)
- **Volume** : Select the desired turn on volume level.
- **Repeat** : Select "Once", "Everyday", "Mon~Fri", "Mon~Sat" or "Sat~Sun".
- **Programme** : When the On Timer is active, you can turn on a specific channel.

➢ You can set the hour and minute directly by pressing the number buttons on the remote control.

➢ **Auto Power Off**
When you set the timer On, the TV will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by timer. This function is only available in timer On mode and prevents overheating, which may occur if a TV is on for too long time.

Choosing Your Language

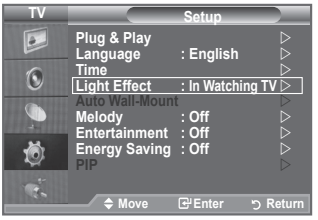
When you start using your set for the first time, you must select the language which will be used for displaying menus and indications.

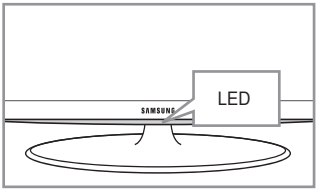


1. Press the **MENU** button to display the on-screen menu.
   Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.
2. Press the ▲ or ▼ button to select "Language", then press the **ENTER** button.
3. Select a particular language by pressing the ▲ or ▼ button repeatedly.
   Press the **ENTER** button.
4. Press the **EXIT** button to exit.

Setting the Light Effect (depending on the model)

You can turn on/off the LED on the front of TV according to the situation. Use it for saving power or when the LED dazzles your eyes.



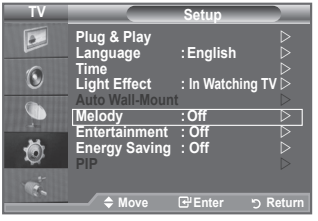


1. Press the **MENU** button to display the on-screen menu. Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.
2. Press the ▲ or ▼ button to select "Light Effect", then press the **ENTER** button.
3. Press the ▲ or ▼ button to select "Off", "In Standby", "In Watching TV" or "Always".
   Press the **ENTER** button.

   - **Off:** LED will not come on.
   - **In Standby:** Turns the LED on in standby mode.
   - **In Watching TV:** Turns the LED on while watching TV.
   - **Always:** LED is always on.

   ➢ Set the "Light Effect" to "Off" to reduce the power consumption.
4. Press the **EXIT** button to exit.

Melody / Entertainment / Energy Saving



1. Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.
2. Select the required option by pressing the ▲ or ▼ button, then press the **ENTER** button.
3. When you are satisfied with your setting, press the **ENTER** button.
4. Press the **EXIT** button to exit.

- **Melody: Off/Low/Medium/High**
  The TV power on/off melody sound can be adjusted.
  ➢ **The Melody does not play**
  - When no sound is output from the TV because the **MUTE** button has been pressed.
  - When no sound is output from the TV because the ⊖ (Volume) button has been pressed.
  - When the TV is turned off by the Sleep Timer function.

♦ **Entertainment: Off/Sports/Cinema/Game**

The “Entertainment” mode enables you to select the optimal display and sound for sports, cinema and games.

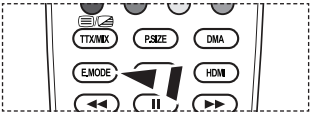
- **Off**: Switch the "Entertainment" function off.
- **Sports**: Provides the optimal picture and sound quality for sports. You can enjoy more thrilling colour and sound.
- **Cinema**: Provides the optimal picture and sound quality for cinema. You can experience a richer picture and enhanced sound.
- **Game**: Provides the optimal picture and sound quality for games. This mode accelerates the playing speed when using an external game console connected to the TV.

➢ If you set any of the three “Entertainment” modes to On, the settings will be locked and can not be adjusted. If you want to make Picture and Sound mode adjustments, the “Entertainment” mode must be turned off.

➢ The “Entertainment” settings are saved for each input source.

➢ If you set any of the three “Entertainment” modes to On, “SRS TS XT” function is not available.

You can press the **E.MODE** button on the remote control repeatedly to change the “Entertainment” setting.



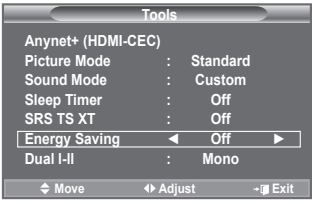
♦ **Energy Saving: Off/Low/Medium/High/Auto**

This feature adjusts the screen brightness depending on the surrounding lighting conditions.

- **Off**: Turns off the energy saving function.
- **Low**: Sets the TV to low energy saving mode.
- **Medium**: Sets the TV to medium energy saving mode.
- **High**: Sets the TV to high energy saving mode.
- **Auto**: Automatically adjusts the brightness of the TV screen in accordance with the scenes.

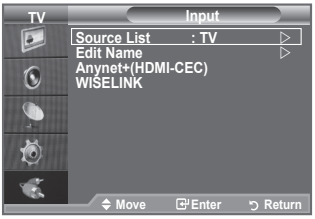
Easy Setting

1. Press the **TOOLS** button on the remote control.
2. Press the ▲ or ▼ button to select “Energy Saving”.
3. Press the ◄ or ► button to select the "Off", "Low", "Medium", "High" or "Auto".
4. Press the **EXIT** or **TOOLS** button to exit.



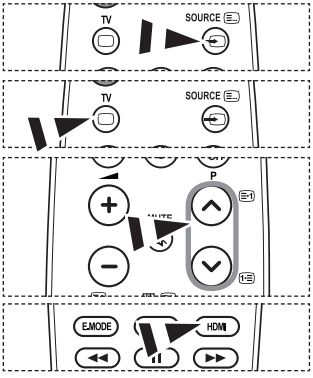
Selecting the Source

You can select among external sources connected to your TV's input jacks.



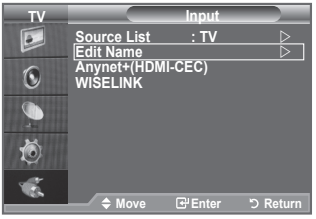
1. Press the **MENU** button to display the menu.
   Press the ▲ or ▼ button to select "Input", then press the **ENTER** button.
2. Press the **ENTER** button again, to select "Source List".
   ➢ When no external device is connected to your set, only "TV", "Ext.1", "Ext.2" are activated in the "Source List". "AV", "S-Video", "Component", "PC", "HDMI1", "HDMI2","HDMI3" are activated only when they are connected to your set.
3. Select the required device by pressing the ▲ or ▼ button.
   Press the **ENTER** button.

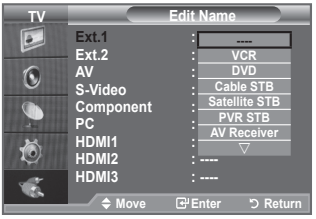
Press the **SOURCE** button on the remote control to toggle between all the available source.
TV mode can be selected by pressing the **TV** button, number buttons(0~9), and the **P**▲/▼ button on the remote control.
You can also watch HDMI mode simply by pressing the **HDMI** button on the remote control.



Editing the Input Source Names

Name the device connected to the input jacks to make your input source selection easier.





1. Press the **MENU** button to display the menu.
   Press the ▲ or ▼ button to select "Input", then press the **ENTER** button.
2. Press the ▲ or ▼ button to select "Edit Name", then press the **ENTER** button.
3. Press the ▲ or ▼ button to select the device that you wish to edit.
   Press the **ENTER** button.
4. Press the ▲ or ▼ button to select the required device.
   Press the **ENTER** button.
5. Press the **EXIT** button to exit.
   ➢ When a PC with a resolution of 1920 x 1080@60Hz is connected to the HDMI IN 2 port, you should set the "HDMI2" mode to "PC" in the "Edit Name" of the "Input" mode.

Setting up Your PC Software (Based on Windows XP)

The Windows display-settings for a typical computer are shown below. The actual screens on your PC may be different depending upon your particular version of Windows and your particular video card. Even if your actual screens look different, the same, basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1. First, click on "Control Panel" on the Windows start menu.
2. When the control panel window appears, click on "Appearance and Themes" and a display dialog-box will appear.
3. When the control panel window appears, click on "Display" and a display dialog-box will appear.
4. Navigate to the "Settings" tab on the display dialog-box.
   The correct size setting (resolution): Optimum- 1920 X 1080
   If a vertical-frequency option exists on your display settings dialog box, the correct value is "60" or "60 Hz". Otherwise, just click "OK" and exit the dialog box.

Display Modes

Both screen position and size will vary depending on the type of PC monitor and its resolution. The resolutions in the table are recommended.

➢ **D-Sub Input**

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
IBM	640 x 350	31.469	70.086	25.175	+ / -
	720 x 400	31.469	70.087	28.322	- / +
VESA	640 x 480	31.469	59.940	25.175	- / -
	640 x 480	37.861	72.809	31.500	- / -
	640 x 480	37.500	75.000	31.500	- / -
	800 x 600	37.879	60.317	40.000	+ / +
	800 x 600	48.077	72.188	50.000	+ / +
	800 x 600	46.875	75.000	49.500	+ / +
	1024 x 768	48.363	60.004	65.000	- / -
	1024 x 768	56.476	70.069	75.000	- / -
	1024 x 768	60.023	75.029	78.750	+ / +
	1280 x 1024	63.981	60.020	108.000	+ / +
	1280 x 1024	79.976	75.025	135.000	+ / +
	1360 x 768	47.712	60.015	85.500	+ / +
	1600 x 1200	75.000	60.000	162.000	+ / +
CVT	1920 x 1080RB	66.587	59.934	138.500	+ / -

➢ **HDMI/DVI Input**

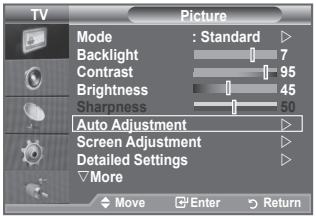
Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
VESA	640 x 480	31.469	59.940	25.175	- / -
	800 x 600	37.879	60.317	40.000	+ / +
	1024 x 768	48.363	60.004	65.000	- / -
	1280 x 1024	63.981	60.020	108.000	+ / +
	1360 x 768	47.712	60.015	85.500	+ / +
	1600 x 1200	75.000	60.000	162.000	+ / +
CEA	1920 x 1080p	67.500	60.000	148.500	+ / +

➢ When using an HDMI/DVI cable connection, you must use the HDMI IN 2 jack.
➢ The interlace mode is not supported.
➢ The set might operate abnormally if a non-standard video format is selected.
➢ Separate and Composite modes are supported. SOG is not supported.
➢ Too long or low quality VGA cable can cause picture noise at high resolution modes (1920x1080 or 1600x1200).

Setting up the TV with your PC

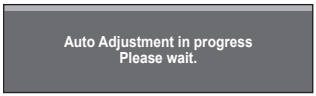
➢ Press the **SOURCE** button to select PC mode.

1. Press the **MENU** button to display the menu.
   Press the **ENTER** button, to select "Picture".
2. Select the required option by pressing the ▲ or ▼ button, then press the **ENTER** button.
3. When you are satisfied with your setting, press the **ENTER** button.
4. Press the **EXIT** button to exit.



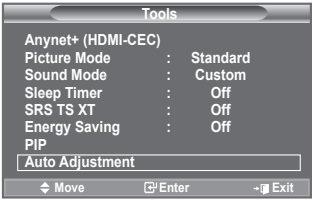
♦ **Auto Adjustment**

Auto adjustment allows the PC screen of set to self-adjust to the incoming PC video signal. The values of fine, coarse and position are adjusted automatically.



Easy Setting

1. Press the **TOOLS** button on the remote control.
2. Press the ▲ or ▼ button to select “Auto Adjustment”, then press the **ENTER** button.



♦ **Screen Adjustment:**

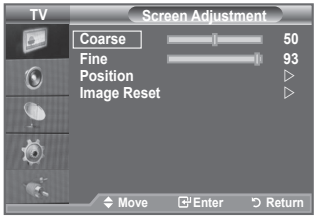
Coarse/Fine

The purpose of picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (coarse) and Fine-tune again. After the noise has been reduced, readjust the picture so that it is aligned on the center of screen.

Press the ▲ or ▼ button to select "Coarse" or "Fine", then press the **ENTER** button.

Press the ◄ or ► button to adjust the screen quality.

Press the **ENTER** button.



Position

Adjust the PC’s screen positioning if it does not fit the TV screen.

Press the ▲ or ▼ button to adjusting the Vertical-Position.

Press the ◄ or ► button to adjust the Horizontal-Position.

Press the **ENTER** button.

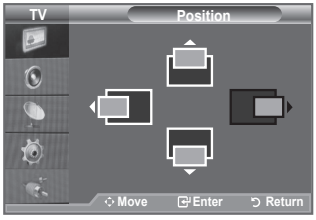
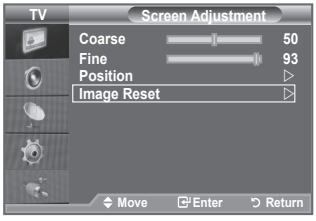


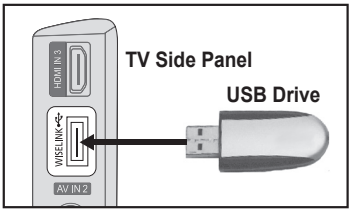
Image Reset

You can replace all image settings with the factory default values.



Using the WISELINK Function

This function enables you to view and listen to photo (JPEG) and audio files (MP3) saved on a USB Mass Storage Class (MSC) device.
Press the **POWER** button on the remote control or your set. Connect a USB device containing JPEG and/or MP3 files to the WISELINK jack (USB jack) on the side of the TV.
If you enter the WISELINK mode with no USB device connected the message “There is no device connected” will appear. In this case, insert the USB device, exit the screen by pressing the **W.LINK** button on the remote control and enter the WISELINK screen again.



Only alphanumeric characters must be used as a folder name or filename (photo, music).

The file system only supports FAT16/32 (The NTFS file system is not supported)

Certain types of USB Digital camera and audio devices may not be compatible with this TV.

Wiselink only supports the USB Mass Storage Class device (MSC). MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers (Both USB HDD and HUB are not supported.)

Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data.SAMSUNG is not responsible for any data file damage or data loss.

Please connect directly to the USB port of your TV. If you are using a separate cable connection, there may be a USB Compatibility problem.

Only MP3 and JPEG file formats are supported.

The Wiselink mp3 format only supports music files with a high sampling frequency (32 kHz, 44.1 kHz, or 48 kHz).

We recommend the sequential jpeg format. Progressive jpeg uses a lot of memory and decoding may fail.

Do not disconnect the USB device while it is loading.

MTP (Media Transfer Protocol) is not supported.

The playing duration of an mp3 file may be displayed as ‘00:00:00’ if its playing time information is not found at the start of the file.

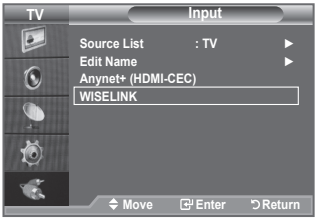
The higher the resolution of the image, the longer it takes to display on the screen.

The Photo or Music List displays up to 300 folders or files.

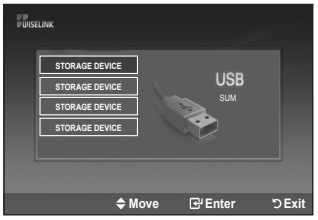
Loading may take some time depending on the size of the file.

Using the WISELINK Menu

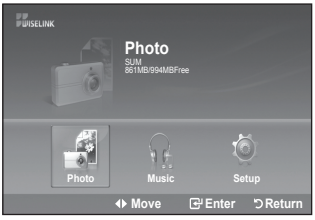
1. Press the **MENU** button. Press the ▲ or ▼ button to select "Input", then press the **ENTER** button.
2. Press the ▲ or ▼ button to select "WISELINK", then press the **ENTER** button.



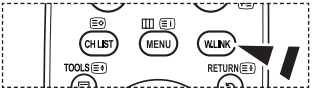
3. Press the ▲ or ▼ button to select the corresponding USB Memory Device, then press the **ENTER** button.
   - The "WISELINK" menu differs depending on the USB Memory Device connected to TV.
   - Some devices may not be supported due to compatibility problems.



4. Press the ◄ or ► button to move to an icon, then press the **ENTER** button.
   - To exit WISELINK mode, press the **W.LINK** button on the remote control.



Press the **W.LINK** button on the remote control to display a WISELINK menu.



Using the Remote Control Button in WISELINK Menu

Button	Operations
▲/ ▼/ ◄/ ►	Move the cursor and select an item.
ENTER	Select the currently selected item.
►	Play the Slide Show or MP3 file.
II	Pause the Slide Show or MP3 file.
RETURN	Return to the previous menu.
INFO	Run various functions from the Photo and Music menus.
■	Stop the current slide show or MP3 file.
◄◄ ►►	Page Up or Down (file list item)
EXIT	Stop the current function and return to the previous high-level menu.

Using the PHOTO (JPEG) List

This menu shows JPEG files and folders saved on an USB memory device.

1. Complete Steps 1 to 3 of “Using the WISELINK Menu”. (Refer to page 31)
2. Press the ◄ or ► button to move to “Photo”, then press the **ENTER** button. The saved file information is displayed as a folder or file.
3. Press the ▲, ▼, ◄ and ► buttons to select a file.
   - Pressing the **ENTER** button over a photo icon shows the currently selected photo in full screen.
   - Pressing the **ENTER** button over a folder icon shows the JPEG files included in the folder.

To exit WISELINK mode, press the **W.LINK** button on the remote control.

- Moving to a photo may take a few seconds to load the file. At this point, the Loading icon will appear at the top left of the screen.
- It takes time to show JPEG files as Thumbnail images.
- This menu only shows files whose file extension is jpg. Files of other formats such as bmp or tiff will not be displayed.
- The files are displayed on a page. 15 thumbnail photos are displayed per page.
- The thumbnails are numbered from left to right and from top to bottom, from 1 to 15.
- Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- Folders are displayed first and they are followed by all JPEG files in the current folder. The folders and JPEG files are sorted in alphabetical order.
- If the photo is displayed in full screen, you can zoom in and out or rotate the photo on the screen.
- While a full screen is displayed, ◄ or ► button will let you see another photo image in the same folder.
- Press the ⏯ button when a Photo icon is selected to start a Slide Show.
- Photos without EXIF information may not be displayed as thumbnail images in the PHOTO LIST depending on the picture quality and resolution.

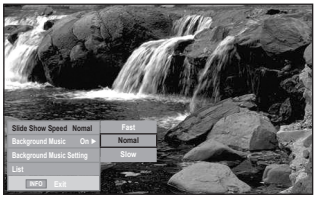
Viewing a Slide Show

4. Press the **INFO** button to display the option("Start Slide Show", "Select All").
5. Press the ▲ or ▼ button to select “Start Slide Show” then press the **ENTER** button.
   - During the slide show, files are displayed in order from the currently shown file.
   - MP3 files can be automatically played during the Slide Show if the Default Background Music is set to On. To enable this function, MP3 files and other photo files must be located in the same folder on the USB Memory Device.
6. Press the **INFO** button during the slide show to set the following options ("Slide Show Speed", "Background Music", "Background Music Setting", "List"). Press the ▲ or ▼ button to select the option, then press the **ENTER** button.
   - After setting the option press the **ENTER** button to make a change.

Using the Menu during a Slide Show

Slide Show Speed:

Select to control the slide show speed.
Press the ▲ or ▼ button to select the required option ("Fast", "Normal", "Slow"), then press the **ENTER** button.



Background Music:

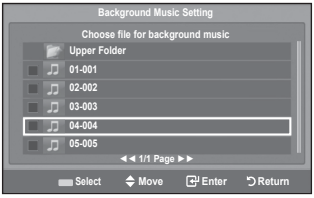
Select to choose whether you want to play an MP3 file during a slide show.
Press the ▲ or ▼ button to select the required option("On", "Off"), then press the **ENTER** button.

Background Music Setting:

While the slide show is in progress, MP3 files and folders under the same directory are displayed.

Select a folder using the ▲ or ▼ button and press the **ENTER** button. The selected folder will be highlighted. Press the **RETURN** button again to return to the slide show screen. The selected background music is played.

➢ If you turn Off the Background Music, even if the Background Music Settings have been set up, the background music will not be played.

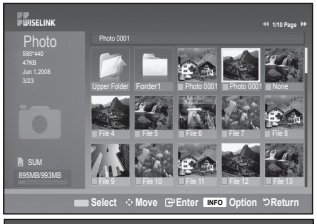


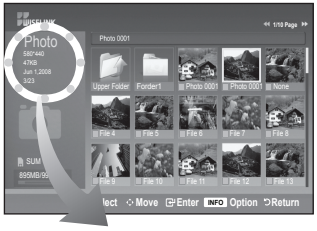
List:

The file information is displayed as a folder or JPEG file.

To exit WISELINK mode, press the **W.LINK** button on the remote control.

➢ When selecting a photo file, the photo file information is displayed on the left side of the TV screen, such as the resolution, the date modified and the order of the file in the current directory (e.g. 10th out of 15).

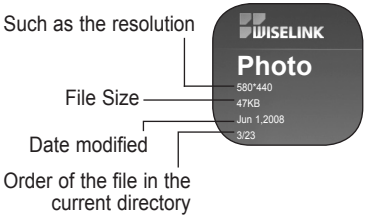




: Folder icon

: Photo icon

: Move to the previous folder stage icon



Using the Option Menu

1. Complete Steps 1 to 3 of “Using the WISELINK Menu”. (Refer to page 31)
2. Press the ◄ or ► button to move to “Photo”, then press the **ENTER** button. The saved file information is displayed as a folder or file.
3. Press the ▲, ▼, ◄ and ► button to select a file, then press the **ENTER** button. Pressing the button over a photo thumbnail displays the photo in full screen.
4. Press the **INFO** button to display the option("Start Slide Show" , "Zoom", "Rotate", "List")

Zoom:

- Press the ▲ or ▼ button to select “Zoom”, then press the **ENTER** button.
- Select the required option by pressing the ▲ or ▼ button, then press the **ENTER** button. (X1, X2, X4)

➢ To pan up/down/left/right in the zoomed-in photo, press the **INFO** button to exit option menu, then press the ▲, ▼, ◄ and ► buttons.

➢ "Start Slide Show" or "Rotate" is disabled when the "Zoom" option is selected.

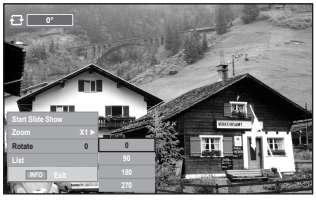
➢ " x1 " : Restore a photo to its original size.

" x2 " : Zoom-in to a photo x2.

" x4" : Zoom-in to a photo x4.

▼ / ▲ / ◄ / ► : Move the zoomed-in photo up/down/right/left.

Rotate:



- Press the ▲ or ▼ button to select “Rotate”, then press the **ENTER** button.
- Select the required option by pressing the ▲ or ▼ button, then press the **ENTER** button. (0°, 90°, 180°, 270°)

➢ The rotated file is not saved.

➢ "Start Slide Show" or "Zoom" is disabled when the “Rotate” option is selected.

➢ "0°" : This rotates a photo to its original position

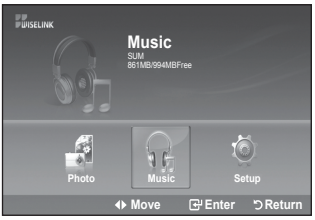
"90°" : This rotates a photo by 90 degrees

"180°" : This rotates a photo by 180 degrees

"270°" : This rotates a photo by 270 degrees

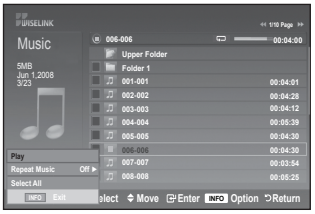
Using the MP3 List

This menu shows MP3 files from among the files saved on a USB memory device.



1. Complete Steps 1 to 3 of “Using the WISELINK Menu”. (Refer to page 31)
2. Press the ◄ or ► button to move to “Music”, then press the **ENTER** button. The saved file information is displayed as a folder or file.
3. Press the ▲ or ▼ button to move to an icon, then press the **ENTER** button.
   - Pressing the **ENTER** button over a musical note icon immediately plays the music file.
   - Pressing the **ENTER** button over a folder icon shows the music files included in the folder.
   - To select a file on the next page, press the ◄◄ or ►► button to move to the next page.
4. To select all files or a file, press the **INFO** button to display the Music menus. Press the **ENTER** button to select “Play”, “Repeat Music” or “Select All”.

   To exit WISELINK mode, press the **W.LINK** button on the remote control.



: Folder icon

: Music icon

: Move to the previous folder stage icon

Using the Option Menu

Play:
Select to play MP3 files.

- Press the ⏸ button while playing an MP3 file to pause the file.
- Press the ■ button to exit Play mode.
- This menu only shows files with the MP3 file extension. Files with other file extensions are not displayed,even if they are saved on the same USB device.
- The selected file is displayed on the top with its playing time.
- To adjust the music volume, press the **VOL** ⊕, **VOL** ⊖ button on the remote control. To mute the sound, press the **MUTE** button on the remote control.

Repeat Music:
Select to repeatedly play MP3 files in the current folder.
You can select On or Off.

Music function information icon

: When all music files are being played.

: When a music file is being played.

/ : When pressing the ► / ⏸ button on the remote control while music is playing.

: When pressing the ■ button on the remote control when music is stopped.

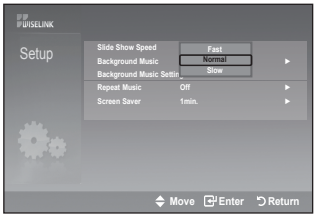
Using the Setup Menu

Setup displays the user settings of the WISELINK menu.

1. Complete Steps 1 to 3 of “Using the WISELINK Menu”. (Refer to page 31)
2. Press the ◄ or ► button to move to “Setup”, then press the **ENTER** button.
3. Press the ▲ or ▼ button to select an item you want, then press the **ENTER** button. (“Slide Show Speed”, “Background Music”, “Background Music Setting”, “Repeat Music”, “Screen Saver”)
4. Press the ▲ or ▼ button to select the option, then press the **ENTER** button.
   To exit WISELINK mode, press the **W.LINK** button on the remote control.

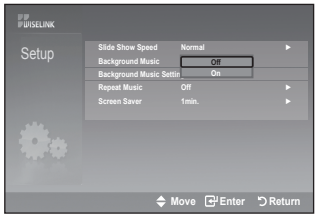
Slide Show Speed:

Select to control the slide show speed. You can select “Fast”, “Normal” or “Slow”.



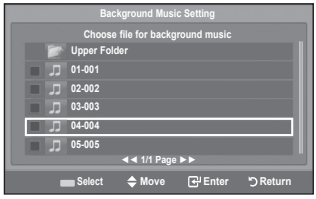
Background Music :

Select to determine whether to play an MP3 file during a slide show. You can select Music “On” or Music “Off”.



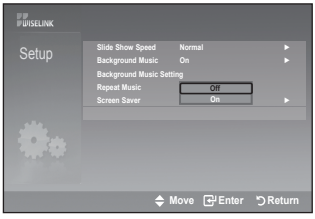
Background Music Setting:

While a slide show is in progress, use the "Background Music Setup" to select a music file to listen to. Select an MP3 file as the background music.



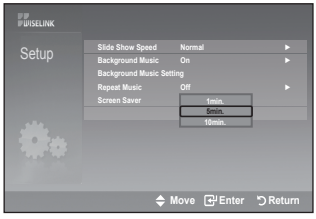
Repeat Music :

Select to determine whether to repeat playing the music when all MP3 files in the current folder have been played.



Screen Saver:

Select to set the waiting time before the screen saver appears. The screensaver will appear when no button is pressed for 1, 5 or 10 minutes.



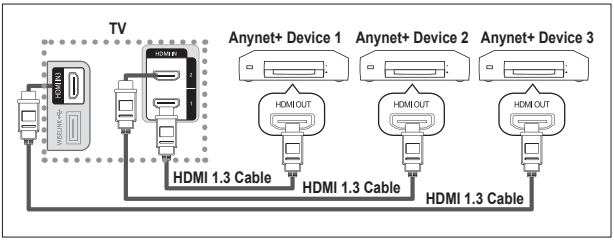
What is Anynet+?

Anynet+ is an AV network system that enables an easy-to-use AV interface for users by controlling all connected AV devices through the Anynet+ menu when Samsung Electronics AV devices are connected.

Connecting Anynet+ Devices

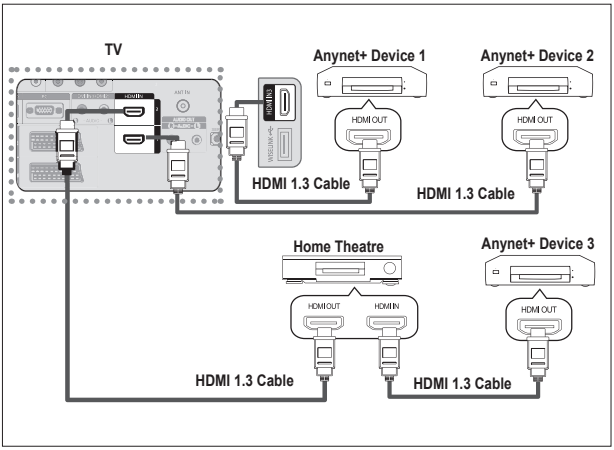
The Anynet+ system supports AV devices supporting Anynet+ only.
Check if there is an Anynet+ mark on the AV device to be connected to the TV.

To directly connect to TV



Connect the [HDMI 1], [HDMI 2] or [HDMI 3] jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using the HDMI cable.

To connect to Home Theater



1. Connect the [HDMI 1], [HDMI 2] or [HDMI 3] jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using the HDMI cable.
2. Connect the HDMI IN jack of the home theatre and the HDMI OUT jack of the corresponding Anynet+ device using the HDMI cable.

- Connect only one receiver.
- You can connect an Anynet+ device using the HDMI 1.3 cable. Some HDMI cables may not support Anynet+ functions.
- Anynet+ works when the AV device supporting Anynet+ is in the Standby or On status.
- Anynet+ supports up to 8 AV devices in total.

Setting Up Anynet+

The following settings are to use Anynet+ functions.

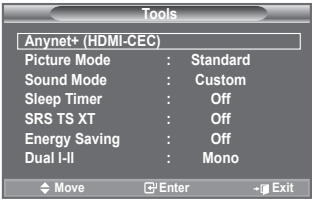
Using the Anynet+ Function

1. Press The **TOOLS** button. Then Press the **ENTER** button to select "Anynet+(HDMI-CEC)".
   Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.
2. Press the **ENTER** button to select "Anynet+ (HDMI-CEC)", then press the **ENTER** button.
3. Press the ▲ or ▼ button to select "On", then press the **ENTER** button.

➢ The "Anynet+ (HDMI-CEC)" function is enabled.

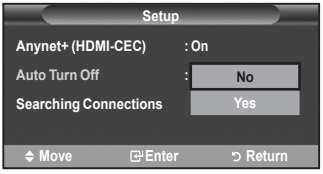
➢ If you select "Off", "Anynet+ (HDMI-CEC)" is disabled.

➢ When the "Anynet+ (HDMI-CEC)" function is disabled, all the Anynet+ related operations are deactivated.



Turning an Anynet+ Device Off Automatically when the TV is Turned Off

1. Press the ▲ or ▼ button to select "Auto Turn Off", then press the **ENTER** button.
2. Press the ▲ or ▼ button to select "Yes", then press the **ENTER** button.
   ➢ The Auto turn off function is enabled.
   ➢ If you select "No", the Auto turn off function is cancelled.
   Press the **EXIT** button to exit.

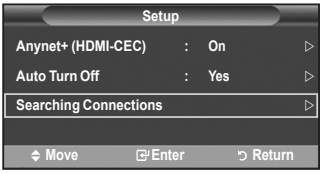


➢ The Select Device setting of the TV remote control is to be set to TV to use the Anynet+ function.

➢ If you set "Auto Turn Off" to "No", connected external devices are also turned off when the TV is turned off. However, if the device is recording, it may not be turned off.

Scanning and Switching between Anynet+ Devices

1. Press the **TOOLS** button.
   Then press the **ENTER** button to select "Anynet+(HDMI-CEC)".
2. Press the ▲ or ▼ button to select "Select Device", then press the **ENTER** button.
3. Press the ▲ or ▼ button to select to a particular device and press the **ENTER** button. It is switched to the selected device.
4. If you cannot find a device you want, press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.
5. Press the ▲ or ▼ button to select "Searching Connections", then press the **ENTER** button.
   The message "Configuring Anynet+ connection..." is displayed. When searching devices completes, the connected devices are listed in the Anynet+ menu.



- Switching to the selected devices may take up to 2 minutes. You cannot cancel the operation during the switching operation.
- The time required to scan for devices is determined by the number of connected devices.
- When the device scan is complete, the number of found devices is not displayed.
- Although the TV automatically scans devices when it is turned on using the **POWER** button, devices connected when the TV is on or under a specific circumstance are not displayed in the device list. Therefore select "Searching Connections" menu to search devices.
- If you have selected external input mode by pressing the **SOURCE** button, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device by using the **TOOLS** button.

Anynet+ Menu

The Anynet+ menu changes depending on the type and status of the Anynet+ devices connected to the TV.

Anynet+ Menu	Description
View TV	Switches from Anynet+ to TV broadcast mode.
Select Device	Your TV connects to the corresponding device.
Record	Starts a recording. (This menu works only for a device supporting recording.)
Menu on Device	Shows the menu of the connected device. Example. When a DVD Recorder is connected, the DVD Recorder's title menu appears.
Device Operation	Shows the play control menu of the connected device. Example. When a DVD Recorder is connected, the play control menu of the DVD Recorder appears.
Receiver	Sound is output through the receiver.
Setup	You can set the environment for using Anynet+.

TV Remote Control Buttons Available in Anynet+ Mode

Device Type	Operating Status	Available Buttons
Anynet+ Device	After switching to the device, when the menu of the corresponding device is displayed on the screen.	Numeric buttons ▲/▼/◄/►/**ENTER**↵ buttons Colour buttons **EXIT** button
	After switching to the device, while playing a file	◄◄ (Backward search)/ ►► (Forward search)/ ■ (Stop)/► (Play)/ ❚❚ (Pause)
Device with built-in Tuner	After switching to the device, when you are watching a TV programme	**P**∧/∨ button
Audio Device	When Receiver is activated	**VOL** +/−button **MUTE** button

- The Anynet+ function only works when the remote control is set to TV.
- The ● button works only while in the recordable state.
- You cannot control Anynet+ devices using the buttons on the TV. You can control Anynet+ devices only using the TV remote control.
- The TV remote control may not work under certain conditions. In this case, re-select the Anynet+ device.
- The Anynet+ functions don't operate for the products from other manufacturers.
- In Anynet+ mode, the colour buttons may not work properly.
- The ◄◄, ►► operations may differ depending on the device.

Recording

You can make a recording of a TV programme using a recorder.

Press the ⏺ button.
Recording begins. (Only when the Anynet+ enabled recording device is connected.)

- ➢ The current TV programme is recorded in the Watching TV status. If you are watching video from another device, the video from the device is recorded.
- ➢ You can also record the source streams by selecting **Record** after pressing the **TOOLS** button.
- ➢ Before recording, check whether the antenna jack is properly connected to the recording device. For the antenna connection to the recording device, refer to its user manual.

Listening through a Receiver

You can listen to sound through a receiver instead of the TV speaker.

1. Press the **TOOLS** button. Then Press the **ENTER**↵ button to select "Anynet+(HDMI-CEC)".
   Press the ▲ or ▼ button to select "Receiver", then press the **ENTER**↵ button.
2. Press the ◄ or ► button to select to "On", then press the **ENTER**↵ button.
   Now you can listen to sound through the receiver.
3. Press the **EXIT** button to exit.

- ➢ When the receiver is set to On, you can listen to the TV sound through the 2-channel receiver.
- ➢ If the receiver is exclusively for a home theatre only (supporting audio only), it may not appear in the device list.
- ➢ In case of a content with copyright problem, listening through the receiver may not properly operate.
- ➢ If there is a power interruption to the TV when the “Receiver” is set to “On” (by disconnecting the power cord or a power failure), the “TV Speaker” may be set to “Off” when you turn the TV on again.

(see page 22)

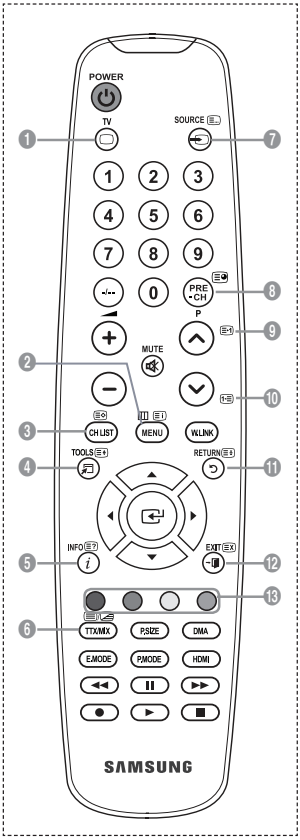
Check Points before Requesting Service

Symptom	Solution
Anynet+ does not work.	■ Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. ■ Connect only one receiver. ■ Check if the Anynet+ device power cord is properly connected. ■ Check the Anynet+ device's Video/Audio/HDMI 1.3 cable connections. ■ Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu. ■ Check whether the TV remote control is in TV mode. ■ Check whether it is Anynet+ exclusive remote control. ■ Anynet+ doesn't work at a certain condition. (Searching channels, Operating WISELINK, Plug & Play, etc.) ■ When connecting or removing the HDMI 1.3 cable, please make sure to search devices again or restart your TV. ■ Check if the Anynet+ Function of Anynet+ device is set on.
I want to start Anynet+.	■ Check if the Anynet+ device is properly connected to the TV and check if the Anynet+ (HDMI-CEC) is set to On in the Anynet+ Setup menu. ■ Press the **TV** button on the TV remote control to switch to TV. Then press the **TOOLS** button to show the Anynet+ menu and select a menu you want.
I want to exit Anynet+.	■ Select **View TV** in Anynet+ menu. ■ Press the **SOURCE** button on the TV remote control and select a device other than Anynet+ devices. ■ Press any of **P**∧/∨, **CH LIST**, **PRE-CH**, and such to change to the TV mode. (Note that the channel button operates only when a tuner-embedded Anynet+ device is not connected.)
The Configuring Anynet+ connection message appears on the screen.	■ You cannot use the remote control when you are configuring Anynet+ or switching to a view mode. ■ Use the remote control when the Anynet+ setting or switching to view mode is complete.
The Anynet+ device does not play.	You cannot use the play function when Plug & Play is in progress.
The connected device is not displayed.	■ Check whether or not the device supports Anynet+ functions. ■ Check whether or not the HDMI 1.3 cable is properly connected. ■ Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu. ■ Search Anynet+ devices again. ■ You can connect an Anynet+ device using the HDMI 1.3 cable only. Some HDMI cables may not support Anynet+ functions. ■ If it is terminated by an abnormal situation such as disconnecting the HDMI 1.3 cable or power cord or a power failure, please repeat the device scan.
The TV programme cannot be recorded.	Check whether the antenna jack on the recording device is properly connected.

Teletext Feature

Most television stations provide written information services via Teletext. The index page of the teletext service gives you information on how to use the service. In addition, you can select various options to suit your requirements by using the remote control buttons.

➢ For teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.



❶ **(exit)**
Exit from the teletext display

❷ **(index)**
Used to display the index (contents) page at any time while you are viewing teletext.

❸ **(store)**
Used to store the teletext pages.

❹ **(size)**
Press to display the double-size letters in the upper half of the screen. For lower half of the screen, press it again. To display normal screen, press it once again.

❺ **(reveal)**
Used to display the hidden text (answers to quiz games, for example). To display normal screen, press it again.

❻ **(teletext on/mix)**
Press to activate teletext mode after selecting the channel providing the teletext service. Press it twice to overlap the teletext with the current broadcasting screen.

❼ **(mode)**
Press to select the teletext mode (LIST/FLOF). If you press it in the LIST mode, it switches into the List save mode. In the List save mode, you can save teletext page into list using the (store) button.

❽ **(sub-page)**
Used to display the available sub-page.

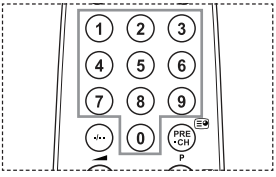
❾ **(page up)**
Used to display the next teletext page.

❿ **(page down)**
Used to display the previous teletext page.

⓫ **(hold)**
Used to hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again.

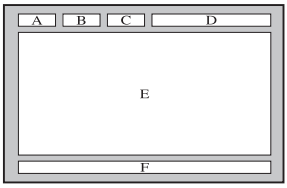
⓬ **(cancel)**
Used to display the broadcast when searching for a page.

⓭ **Colour buttons (red/green/yellow/blue)**
If the FASTEXT system is used by a broadcasting company, the different topics covered on a teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way. To display the previous or next page, press the corresponding coloured button.



➢ You can change teletext pages by pressing the numeric buttons on the remote control.

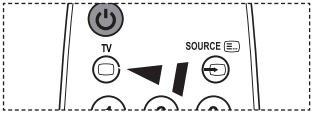
The teletext pages are organized according to six categories:



Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information. FASTEXT information.

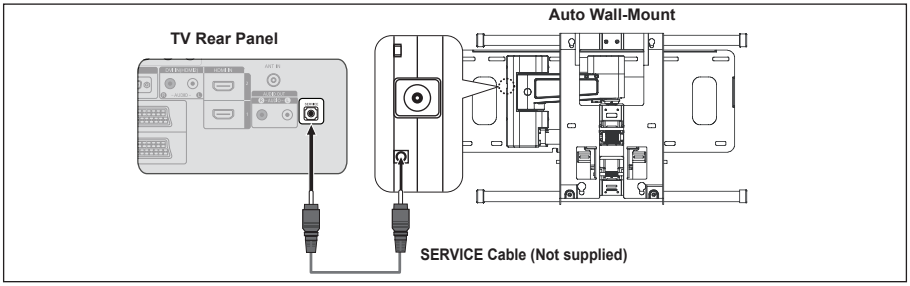
➢ Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
- ◆ Entering the page number
- ◆ Selecting a title in a list
- ◆ Selecting a coloured heading (FASTEXT system)

➢ Press the **TV** button to exit from the teletext display.



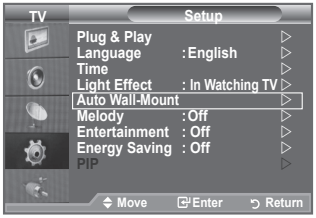
Auto Wall-Mount (Sold separately)

Once the auto wall mount is installed, your TV's position can be easily adjusted.



Entering the menu

1. Press the ▲, ▼, ◄ or ► button on your remote control.
- ➢ The Auto Wall-Mount screen is displayed.
- ➢ If the Auto Wall-Mount screen is not displayed when clicking on a direction button while watching your TV, use the menu to display that screen.
  - Press the **MENU** butt on to display the menu. Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.
  - Press the ▲ or ▼ button to select "Auto Wall-Mount", then press the **ENTER** button.



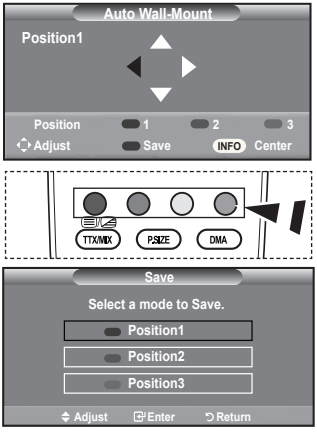
Remembering the Position

2. Adjust to the desired position using the ▲,▼,◄,► buttons.
- ➢ If you press an arrow button when no OSD is displayed on the TV screen, the Adjustment screen appears.
- ➢ Press the **INFO** button to reset. Press the ◄ or ► button to select "Yes", then press the **ENTER** button. The position is initialized to the default setting.

3. Press the blue button.
Press the ▲ and ▼ buttons to select a save mode from either Position 1, Position 2 or Position 3 in order to save the current position.
- ➢ To not save the current position, press the **RETURN** button.
- ➢ When selecting a save mode, you cannot use the Colour buttons.

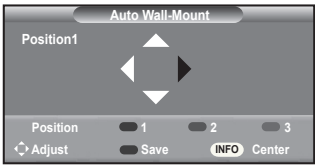
4. Press the **ENTER** button to save.
- ➢ When Position1 is selected, the message "Current position saved as Position1" is displayed.

5. Press the **ENTER** button.
- ➢ The saved Position appears on the left side of the OSD.



Moving to the remembered position

1. Complete Step 1 of “Entering the menu”.
2. Pressing a Colour (Red, Green, Yellow) button moves the auto wall mount to the saved position.
   - ➢ You can move the wall mount to one of the 3 pre-set positions by pressing the Red (Position 1), Green (Position 2) or Yellow (Position 3) buttons.
   - ➢ If you adjust the position after moving to a pre-set position, the position display will disappear.



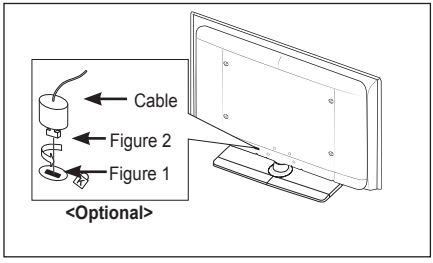
- ➢ For installation, refer to the Installation Manual provided with the wall mount.
- ➢ For product installation and the installation and moving of the wall mount, make sure to consult a specialized installation company.
- ➢ This installation manual is to be used when attaching the wall mount to a wall. When attaching to other building materials, please contact your nearest dealer.
- ➢ The auto wall mount will not work when Anynet+ and WISELINK are operating.
- ➢ 37, 40 and 46 inch models are not compatible with the old electrically powered wall mount model (WMN5090A*).

Using the Anti-Theft Kensington Lock (depending on the model)

The Kensington lock is a device used to physically fix the system when using it in a public place. The appearance and locking method may differ from the illustration depending on the manufacturer. Refer to the manual provided with the Kensington lock for proper use. The locking device has to be purchased separately.

1. Insert the locking device into the Kensington slot on the LCD TV (Figure 1), and turn it in the locking direction (Figure 2).
2. Connect the Kensington lock cable.
3. Fix the Kensington lock to a desk or a heavy stationary object.

- ➢ The place of the Kensington Lock may be different depending on its model.



Troubleshooting: Before Contacting Service Personnel

No sound or picture	♦ Check that the mains lead has been connected to a wall socket. ♦ Check that you have pressed the ⏻ button on your set. ♦ Check the picture contrast and brightness settings. ♦ Check the volume.
Normal picture but no sound	♦ Check the volume. ♦ Check whether the **MUTE** button has been pressed on the remote control. ♦ Check if "TV Speaker" is on
Screen is black and power indicator light blinks steadily	♦ On your computer check; Power, Signal Cable. ♦ The TV is using its power management system. ♦ Move the computer's mouse or press any key on the keyboard.
No picture or black and white picture	♦ Adjust the colour settings. ♦ Check that the broadcast system selected is correct.
Sound and picture interference	♦ Try to identify the electrical appliance that is affecting the set and move it further away. ♦ Plug your set into a different mains socket.
Blurred or snowy picture, distorted sound	♦ Check the direction, location and connections of your aerial. This interference is often due to the use of an indoor aerial.
Remote control malfunctions	♦ Replace the remote control batteries. ♦ Clean the upper edge of the remote control (transmission window). ♦ Check the battery terminals.
"Check signal cable." message is displayed	♦ Check that the signal cable is firmly connected to the PC or video sources. ♦ Check that the PC or video sources are turned on.
On PC mode, "Not Supported Mode." message is displayed	♦ Check the maximum resolution and the frequency of the video adaptor. ♦ Compare these values with the data in the Display Modes.
The damaged picture appears in the corner of the screen	If "Just Scan" is selected in some external devices, the damaged picture may appear in the corner of the screen. This symptom is caused by external devices, not TV.
The "Resets all settings to the default values" message appears.	This appears when you press and hold the **EXIT** button for a while. The product settings are reset to the factory defaults.

The TFT LCD panel uses a panel consisting of sub pixels (6 220 800) which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

Technical and Environmental Specifications

Model Name	LE32A550	LE37A550	LE40A550
Screen Size (Diagonal)	32 inch	37 inch	40 inch
PC Resolution	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz
Sound Output	10 W X 2	10 W X 2	10 W X 2
Dimensions (WxDxH) Body With stand	865 x 79 x 500 mm 865 x 220 x 561 mm	984 x 87 x 572 mm 984 x 240 x 637 mm	1058 x 91 x 608 mm 1058 X 240 X 672 mm
Weight With stand	14 kg	18 kg	19 kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	10 °C to 40 °C (50 °F to 104 °F) 10 % to 80 %, non-condensing -20 °C to 45 °C (-4 °F to 113 °F) 5 % to 95 %, non-condensing		
Stand Swivel (Left / Right)	-20˚ ~ 20˚		

Model Name	LE46A550	LE52A550
Screen Size (Diagonal)	46 inch	52 inch
PC Resolution	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz
Sound Output	10 W X 2	10 W X 2
Dimensions (WxDxH) Body With stand	1186 x 111 x 686 mm 1186 X 260 X 749 mm	1330 x 120 x 779 mm 1330 X 291 X 842 mm
Weight With stand	27 kg	33 kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	10 °C to 40 °C (50 °F to 104 °F) 10 % to 80 %, non-condensing -20 °C to 45 °C (-4 °F to 113 °F) 5 % to 95 %, non-condensing	
Stand Swivel (Left / Right)	-20˚ ~ 20˚	

Model Name	LE32A551	LE37A551	LE40A551
Screen Size (Diagonal)	32 inch	37 inch	40 inch
PC Resolution	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz
Sound Output	10 W X 2	10 W X 2	10 W X 2
Dimensions (WxDxH) Body With stand	801 X 88 X 526 mm 801 X 252 X 574 mm	918 X 92 X 608 mm 918 X 300 X 650 mm	997 X 92 X 641 mm 997 X 300 X 686 mm
Weight With stand	13 kg	18 kg	21 kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	10 °C to 40 °C (50 °F to 104 °F) 10 % to 80 %, non-condensing -20 °C to 45 °C (-4 °F to 113 °F) 5 % to 95 %, non-condensing		
Stand Swivel (Left / Right)	-20˚ ~ 20˚		

Model Name	LE46A551	LE52A551
Screen Size (Diagonal)	46 inch	52 inch
PC Resolution	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz
Sound Output	10 W X 2	10 W X 2
Dimensions (WxDxH) Body With stand	1127 X 100 X 716 mm 1127 X 280 X 767 mm	1269 X 109 X 806 mm 1269 X 326 X 857 mm
Weight With stand	28 kg	32 kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	10 °C to 40 °C (50 °F to 104 °F) 10 % to 80 %, non-condensing -20 °C to 45 °C (-4 °F to 113 °F) 5 % to 95 %, non-condensing	
Stand Swivel (Left / Right)	-20˚ ~ 20˚	

Model Name	LE32A552	LE37A552	LE40A552
Screen Size (Diagonal)	32 inch	37 inch	40 inch
PC Resolution	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz
Sound Output	10 W X 2	10 W X 2	10 W X 2
Dimensions (WxDxH) Body With stand	801 X 88 X 514 mm 801 X 252 X 574 mm	918 X 92 X 592 mm 918 X 300 X 650 mm	997 X 92 X 628 mm 997 X 300 X 686 mm
Weight With stand	13 kg	18 kg	21 kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	10 °C to 40 °C (50 °F to 104 °F) 10 % to 80 %, non-condensing -20 °C to 45 °C (-4 °F to 113 °F) 5 % to 95 %, non-condensing		
Stand Swivel (Left / Right)	-20˚ ~ 20˚		

Model Name	LE46A552	LE52A552
Screen Size (Diagonal)	46 inch	52 inch
PC Resolution	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz
Sound Output	10 W X 2	10 W X 2
Dimensions (WxDxH) Body With stand	1127 X 100 X 700 mm 1127 X 280 X 767 mm	1269 X 109 X 791 mm 1269 X 326 X 857 mm
Weight With stand	28 kg	32 kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	10 °C to 40 °C (50 °F to 104 °F) 10 % to 80 %, non-condensing -20 °C to 45 °C (-4 °F to 113 °F) 5 % to 95 %, non-condensing	
Stand Swivel (Left / Right)	-20˚ ~ 20˚	

Model Name	LE32A553	LE37A553	LE40A553
Screen Size (Diagonal)	32 inch	37 inch	40 inch
PC Resolution	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz
Sound Output	10 W X 2	10 W X 2	10 W X 2
Dimensions (WxDxH) Body With stand	801 X 88 X 524 mm 801 X 252 X 574 mm	918 X 92 X 601 mm 918 X 300 X 650 mm	997 X 92 X 638 mm 997 X 300 X 686 mm
Weight With stand	13 kg	18 kg	21 kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	10 °C to 40 °C (50 °F to 104 °F) 10 % to 80 %, non-condensing -20 °C to 45 °C (-4 °F to 113 °F) 5 % to 95 %, non-condensing		
Stand Swivel (Left / Right)	-20˚ ~ 20˚		

Model Name	LE46A553	LE52A553
Screen Size (Diagonal)	46 inch	52 inch
PC Resolution	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz
Sound Output	10 W X 2	10 W X 2
Dimensions (WxDxH) Body With stand	1127 X 100 X 710 mm 1127 X 280 X 767 mm	1269 X 109 X 800 mm 1269 X 326 X 857 mm
Weight With stand	28 kg	32 kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	10 °C to 40 °C (50 °F to 104 °F) 10 % to 80 %, non-condensing -20 °C to 45 °C (-4 °F to 113 °F) 5 % to 95 %, non-condensing	
Stand Swivel (Left / Right)	-20˚ ~ 20˚	

➢ Design and specifications are subject to change without prior notice.

➢ This device is a Class B digital apparatus.

➢ For the power supply and Power Consumption, refer to the label attached to the product.

Warning! Important Safety Instructions

Please read the appropriate section that corresponds to the marking on your Samsung product before attempting to install the product.

CAUTION	
RISK OF ELECTRIC SHOCK DO NOT OPEN	This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.	This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
  - Do not cover the slots and openings with a cloth or other materials.
  - Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
  - Do not place this apparatus in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided.
  - Give your product 10 cm (4 inch) clearance from the wall.
- Do not place this apparatus near or over a radiator or heat resistor, or where it is exposed to direct sunlight.
- Do not place heat generating items such as candles, ashtrays, incense, flammable gas or explosive materials near the product.
- Do not place a water containing vessel on this apparatus, as this can result in a risk of fire or electric shock.
- Do not expose this apparatus to rain or place it near water(near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.). If this apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately. Make sure to pull out the power cord from the outlet before cleaning.
- This apparatus use batteries. In your community there might be regulations that require you to dispose of these batteries properly under environmental considerations. Please contact your local authorities for disposal or recycling information.
- Do not overload wall outlets, extension cords or adaptors beyond their capacity, since this can result in fire or electric shock.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them,
  paying particular attention to cords at plug end, adaptors and the point where they exit from the appliance.
- To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system.
  This will prevent damage to the set due to lightning and power line surges.
- Before connecting the AC power cord to the DC adaptor outlet, make sure the voltage designation of the DC adaptor corresponds to the local electrical supply.
- Never insert anything metallic into the open parts of this apparatus. Doing so many create a danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus.
- Make sure to plug the power cord in until it is firmly inserted. When removing the power cord, make sure to hold the power plug when pulling the plug from the outlet. Do not touch the power cord with wet hands.
- If this apparatus does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service center.
- Be sure to pull the power plug out of the outlet if the TV is to remain unused or if you are to leave the house for an extended period of time (especially when children, elderly or disabled people will be left alone in the house).
- Accumulated dust can cause an electric shock, an electric leakage or a fire by causing the power cord to generate sparks and heat or the insulation to deteriorate.
- Be sure to contact an authorized service center, when installing your set in a location with heavy dust, high or low temperatures,high humidity, chemical substances and where it operates for 24 hours such as the airport, the train station etc. Failure to do so may cause serious damage to your set.
- Use only a properly grounded plug and receptacle.
  - An improper ground may cause electric shock or equipment damage. (Class I Equipment only.)
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.
- Do not allow children to hang onto the product.
- Store the accessories (battery, etc.) in a location safely out of the reach of children.
- Do not install the product in an unstable location such as a shaky self, a slanted floor or a location exposed to vibration.
- Do not drop or impart any shock to the product. If the product is damaged, disconnect the power cord and contact a service center.
-

WARNING - TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.

Wiring the Mains Power Supply Plug (UK Only)

IMPORTANT NOTICE
The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BSI1362 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitabl y approved extension lead or consult your dealer for assistance. However, if there is no alternative but to cut off the plug, remove the fuse and then safely dispose of the plug.

Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

IMPORTANT
The wires in the mains lead are coloured in accordance with the following code:
BLUE - NEUTRAL BROWN - LIVE
As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows :
The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

WARNING:
DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL, WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL ⏚ , OR COLOURED GREEN OR GREEN AND YELLOW.

Warranty Card

UNITED KINGDOM

This Samsung product is warranted for a period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased. However, Samsung Authorised Dealers and Authorised Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned. In case of difficulty, details of our Authorised Service Centres are available from:

Samsung Electronics U.K. Ltd.
Customer Care Centre
PO Box 17243
Edinburgh, EH11 4YB
United Kingdom
Tel: 0870 SAMSUNG (7267864)(UK & Northern Ireland)
Tel: 0818 717 100 (Republic of Ireland Only)
Fax: +44 (0)870 7221127
Web : www.samsung.com/uk

WARRANTY CONDITIONS
1. The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been defaced.
2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
3. Warranty repairs must be carried out by Authorised Samsung Dealers or Authorised Service Centres. No re-imbursement will be made for repairs carried out by non Samsung Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty.
4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any Country other than the one for which the product was originally designed and manufactured.

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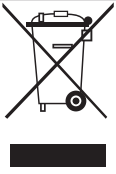

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)
(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.